



# Metcalf Energy Center

December 13, 2002

Mr. Steve Munro, Compliance Project Manager  
California Energy Commission  
1516 9<sup>th</sup> Street, MS 2000  
Sacramento, CA 95814

**Subject: Metcalf Energy Center 99-AFC-3  
Monthly Compliance Report #14, November 1 – November 30, 2002**

Dear Mr. Munro:

In accordance with the CEC Commission Decision, enclosed please find a Monthly Compliance Report (Report) and Compliance Matrix for the Metcalf Energy Center. This report is for the period beginning November 1 through November 30, 2002.

The Report lists those Conditions of Certification that require submittal with the Monthly Compliance Report as stated in the Commission Decision. These submittals are listed in the Report and are attached.

A copy of this report is also being submitted to the library nearest the project site, Santa Teresa Branch Library, as required in the Commission Decision.

If you have any questions please call me at (408) 463-6001.

Sincerely,

A handwritten signature in black ink that reads "Kristen O'Kane".

Kristen O'Kane  
Environmental Compliance Manager  
METCALF ENERGY CENTER

Enclosures

cc: Ken Abreu, Calpine  
Steve DeYoung, Calpine  
Nick LaPorte, Calpine  
Document Control, Calpine  
Don Wimberly, Willdan

**Metcalf Energy Center  
99-AFC-2**

**Monthly Compliance Report #14  
November 1 – November 30, 2002**

**1. Project construction status**

**Plant area:** We completed the installation of the piling in the cooling tower, cooling tower inlet header, and cooling tower pump pit areas. There were a total of (402) 14" diameter pile varying in length from 55 to 70 feet. The engineer added (70) additional piles because the planned piles had a lower than acceptable blow count at the end of the drive. The additional piles occurred relatively random throughout the foundation areas. The problem we encountered at the beginning of drive in the north end of the cooling tower, where the piles were deflected out of plumb, was corrected. We installed a 1' section of H-beam welded on the bottom of the boot plate to act as a spear to break through the hard layer that was deflecting the pile.

After completion of the cooling tower we moved the pile driver to the steam turbine excavation and began driving 18" pile for the steam turbine and the steam turbine platform. We had to excavate an additional 6" of material from the bottom of the excavation to ensure that we would have enough distance between the cut off elevation of the pile and bottom of the excavation to prevent water from falling into the pile in the event of a heavy rain.

We received the support of excavation submittal from the pile driver for review by the engineers. Issues arose regarding excavation of native material around the piles after they have been driven; the engineer continues to review this and the issue should be resolved in the early part of December.

We graded areas around the site to channel storm water runoff to areas more conducive to pumping and to the storm water retention basin. This included the installation of swales and earthen sumps to serve as low points for collection.

**Laydown Areas:** We continued to receive minor components from Siemens for the Steam Turbine, which has been placed in the south laydown area. We also received the underground circulation water pipe from the manufacturer. This material was offloaded in the area of the future administration building. This material will be installed in January and February.

**Engineering:** The engineering progress is approximately 75.7% complete. Engineering continues to support production-piling effort at the site.

### ***Engineering Key Accomplishments***

1) The following documents were issued by Burns and Roe Enterprises, Inc.:

- Issued the following documents to CBO for approval:
  - Design package for Units 1& 2 CTG Step-up and Auxiliary Transformer foundations
  - Design package for Main Pipe Rack foundations
  - Design package for STG step-up transformer foundation
- Issued the following documents for Bid:
  - Shop Fabricated Tank specification
  - Re-issued Field Fabricated Tank Specification
- Issued the following documents for review:
  - Generator Circuit Breaker Elementary Diagrams
  - Logic Diagrams (21 Systems)
- Issued the following for construction:
  - Power Three Line Diagrams
  - Auxiliary Steam P&ID
  - Equipment List
  - Line List
  - Mechanical Design Criteria

2) Engineering Tasks:

- Burns and Roe continued to support Construction effort
- Continued with design of the cooling tower basin, pipe rack framing, steam turbine platform steel framing and foundation
- Continued to coordinate design of visual and sound attenuation screens
- Continued to develop PDS 3D model:
  - a) Underground piping
  - b) Gas Compressor system design
  - c) Underground Electrical system
  - d) Structural steel
  - e) Equipment
- Continued to review vendor documents
- Continued to update P&IDs
- Continued development of stress analysis
- Continued development of line and valve lists
- Continued to develop I/O list
- Continued to develop logic diagrams
- Continued to develop above ground conduit design
- Revising electrical drawings to modify the power distribution system (eliminate PDC-6)
- Continued with preparation of control valve data sheets

3) Major Equipment

- Steam Turbine Generator is scheduled to be delivered in December
- HRSG engineering is in progress and design documents are submitted to CBO for approval
- Issued the following for bid:

- a) Iso Phase Bus
- b) Power Distribution Control
- c) CCW heat exchangers

#### **Activities planned for next month**

**Plant area:** We will continue the installation of the production piling. We should complete the installation of the steam turbine pedestal, 180 – 18" diameter piles, and steam turbine platform, 87 – 18" diameter piles. This area should be complete by the end of December, weather permitting. We will then move to the HRSG area to begin driving 16" diameter piles.

We will install the support of the excavation sheet piling system for the installation of the underground circulation water system. This work will progress into the month of January.

With the completion of the piles in the cooling tower area we will install the reinforcing bars and concrete in all of the piles except for those in the area of the sheet piling system. This will occur in the first half of the month.

**Laydown Areas:** We will continue to receive material from miscellaneous vendors and preserve the equipment we have on site.

#### **Engineering:**

- **General**
  - Complete the integrated project schedule
  - Continue to review vendor drawings for CTGs, STG, Condenser, HRSGs, Cooling Tower, Major pumps, water treatment system and other equipment
  - Continue to support construction
- **Mechanical**
  - Continue pipe stress analysis
  - Continue development of P&IDs
  - Continue development Line/Valve/Pipe specialty lists
  - Continue development of 3D equipment and piping models
  - Continue development of equipment list
  - Continue development of Plant Fire Protection/Detection Specification
  - Start the following: Chemical Feed P&ID HR, Aux. And Gland Steam piping final stress analysis and checking
- **Civil /Structural/Architectural**
  - Continue update 3D Models
  - Complete redesign of HRSG foundation
  - Issue Condensate Pump Foundation Design
  - Continue work on 4 Station Transformer foundation
  - Provide engineering support on the piling efforts

- **Electrical**
  - Revise Under Ground Duct Bank drawings
  - Continue to develop aboveground conduit design
  - Issue CTG Cable and raceway schedules
  - Enter Data in ICAMS
  - Evaluate PDC and Iso Phase Bus Duct bids
- **Instrumentation**
  - Continue updating of P&IDs
  - Continue data inputs to the major lists
  - Continue preparation of logics
  - Continue preparation of technical specifications

### **MEC Litigation Update**

1. The California Supreme Court (Decision 2-28-02)
  - a. The Supreme Court denied STCAG appeal on February 28, 2002.
  - b. The denial is final and non-appealable in California courts.
2. Sacramento Superior Court (Decision 2-22-02)
  - a. MEC's Demurrer was granted on 2-22-02, dismissing the suit for lack of subject matter jurisdiction.
  - b. STCAG had indicated in the press that it intends to appeal this dismissal for lack of subject matter jurisdiction.
  - c. Proposed Order Sustaining Demurrer was sent to the Judge for signature on March 14, 2002. The CEC sent a revised order and notice of judgment the last week of April.
  - d. We received a notice of intent to file an appeal from STCAG. STCAG will be appealing the Demurrer to the Third District Court of Appeals, dated May 8, 2002. By letter dated June 6, 2002, the office of the Clerk for the Third Appellate District notified STCAG that the reporter's transcript had been filed. STCAG's brief and appendix were originally due by July 5, 2002. However, STCAG was granted an extension. STCAG filed their Opening Brief on August 23, 2002. MEC's reply brief is due September 26, 2002. The brief was filed.
  - e. STCAG filed its response to MEC's brief on November 4, 2002. Awaiting court letter regarding possible oral argument hearing date.
  - f. Oral argument has been set for January 27, 2003.
3. U.S. Ninth Circuit Court of Appeals (Decision 11-21-02)
  - a. On August 10, 2001, the U.S. EPA's Environmental Appeals Board (EAB) rejected petitions filed by STCAG and CARE that had contested the MEC Prevention of Significant Deterioration (PSD) permit. The STCAG subsequently appealed this EAB decision with the U.S. Court of Appeals for the Ninth Circuit in October 2001.
  - b. On November 21, 2002, the Ninth Circuit denied STCAG's petition on all grounds.

- c. While we have received no indication that the STCAG intends to appeal the Ninth Circuit's ruling, given the STCAG's prior willingness to pursue multiple appeals it is at least possible that such an appeal could be filed. Any such appeal could involve a petition by STCAG for rehearing either by the original 3-judge panel or *en banc* by the entire Ninth Circuit, or a petition for writ of certiorari directly to the U.S. Supreme Court. A petition for rehearing (whether by the panel or *en banc*) must be filed no later than 45 days after the Ninth Circuit's November 21, 2002 ruling, which would be January 5, 2003. Alternatively, a petition for writ of certiorari would have to be filed with the U.S. Supreme Court no later than February 19, 2003 (90 days after the Ninth Circuit's decision), assuming that no petition for rehearing was filed. If STCAG files a petition for rehearing, then a petition for writ of certiorari would have to be filed within 90 days of the Ninth Circuit's denial of rehearing or any subsequent entry of judgment by that court if rehearing is granted.
- 4. STCAG lawsuit against the City: recycled water line (Pending)
  - a. STCAG has sued to stop the City's construction of its preferred waterline route.
  - b. Hearing was held 6/20/02. Court rendered a decision in favor of City and Calpine.
  - c. Appeal brief was to have been due October 17<sup>th</sup>, but STCAG received a 30-day extension.
  - d. The brief is expected in December.
- 5. STCAG lawsuit against BAAQMD: San Francisco Superior Court (Pending)
  - a. STCAG challenged the Bay Area Air Quality Management District (BAAQMD) issuance of the PSD permit.
  - b. The case was filed on 9/9/02 and served on 9/17/02.
  - c. Calpine and the BAAQMD are filing Demurrers (motions to dismiss) on or about October 17, 2002.
  - d. Hearing dates will be set thereafter.
  - e. BAAQMD late filed its request for Demurrer. The parties had a telephonic meet and confer to set dates for filing of STCAG's first amended complaint, which was filed on November 8, 2002. Awaiting court order regarding leave to amend. Expect CEC, BAAQMD, and Calpine Demurrer to first amended complaint to be filed on or about 11-22-02.
  - f. Demurrers were filed by Calpine, the CEC and the BAAQMD on November 26, 2002.
  - g. Hearing on the demurrer will be held on December 19, 2002.

## **2. Documents required to be submitted with Monthly Compliance Report**

AQ-48	Summary of monthly activities related to the Fugitive Dust Control Plan is attached.
AQ-52	1 ultra low sulfur fuel receipt attached.
AQ-52	Off-road diesel fired equipment usage lists attached.
BIO-2	Summary of Designated Biologist's written records is attached.
BIO-6	WEAT training presented to 16 on site personnel.
CUL-5	WEAT training presented to 16 on site personnel.
CUL-7	Weekly construction schedules are attached.
CUL-8	Weekly summary reports attached.
PAL-3	WEAT training presented to 16 on site personnel.
PAL-4	A summary report is attached.
LAND-1	There is no update on trail developments.
SOCIO-1	List of planned procurement of materials and hiring outside the local regional area is attached.
SOIL&WATER-1	Gallons of well water used during the month of November = 3,067.
GEN-2	Updated drawing list available upon request.
GEN-3	There were no payments to the CBO in November.

### **3. Compliance matrix**

A Compliance Matrix is attached.

### **4. Conditions that have been satisfied during the reporting period (CBO submittals and approvals can be found in #13)**

VIS-9	Submitted response to comments on color treatment plan for plant architectural screen, HRSG stacks and cooling tower.
SOIL&WATER-4	Submitted copy of Santa Clara Valley Water District permit to use portion of setback during construction.
SOIL&WATER-7	Submitted copy of Regional Water Quality Control Board permit to construct stormwater outfall.
GEN-4	Submitted CBO approval of replacement Resident Engineer.
GEN-6	Submitted CBO approval of Special Inspector matrix.

### **5. Submittal deadlines not met**

There are no outstanding submittals.

### **6. Approved COC changes**

- A request for amendment was submitted 11/30/01 and approved 12/21/01. The amendment allows for an additional 14 acres of laydown area south of Blanchard Road and west of the railroad tracks.

- An amendment was approved on 8/28/02 to allow the originally certified 10.2-mile recycled water line to be replaced with a 1000-foot lateral interconnection line of the same capacity.

**7. Filings or permits with other agencies**

- Received permit (no. 02494) from Santa Clara Valley Water District on 11/22/02. Permit allows temporary use of portion of setback during construction. This is an extension of permit number 01480.
- Received permit from Regional Water Quality Control Board on 11/21/02 to construct stormwater outfall into Fisher Creek.

**8. Projection of project compliance activities for next two months (December - January)**

AQ-48	Will follow dust mitigation measures.
AQ-49 and 50	Dust will be monitored and activities recorded.
CUL-5	Training will be provided as needed.
CUL-7	Will submit weekly schedule to resource specialists.
CUL-8	Cultural specialist will perform required duties when necessary.
CUL-9	Cultural specialist will perform required duties when necessary.
BIO-2	Biologist will perform required duties when necessary.
BIO-6	Training will be provided as needed.
PAL-3	Training will be provided as needed.
PAL-4	Paleo specialist will perform required duties when necessary.
VIS-3	Will submit lighting plan to CPM and City of San Jose for review.
VIS-10	Will respond to comments on plume abatement plan.

**9. Additions to on-site compliance file**

- Silt fence inspection logs
- Straw bale and wattle inspection logs
- Erosion and sediment control inspection logs
- Water truck logs
- Road cleaning logs
- Biological monitor daily logs
- WEAT training logs
- Daily logs (fugitive dust and public road inspections for tracked out material)
- Ultra low sulfur fuel receipts
- Transportation (oversize/overweight) permits

**10. Requests to dispose of items**

None

**11. Listing of complaints, notices of violations, official warnings, and citations**  
None. (Includes call log for calls received on MEC public information line.)

**12. List of facility design submittals, comments and approvals to CBO**  
Matrix attached. CBO comments received in November attached.

CBO Approvals:

- STRUC-1, Civil/Structural Design Criteria Rev. 1 approved 11/7/02.
- STRUC-1, Composite Pile Plan – Drawing S110, Rev. 1, approved 11/7/02.

**CONDITION OF CERTIFICATION AQ-48  
SUMMARY OF FUGITIVE DUST MITIGATION ACTIVITIES**

METCALF ENERGY CENTER  
MONTHLY COMPLIANCE REPORT #14

Summary of monthly activities related to the Fugitive Dust Control Plan:

The site was monitored daily for fugitive dust. Logs are kept on file as part of the Storm Water Pollution Prevention Plan.

Specific activities include:

- Slopes and fill stockpile were re-hydroseeded on November 4th.
- A mechanical vacuum sweeper was here periodically throughout the month (November 7, 11, 12) to remove dust from the access road, Blanchard Road and Monterey Road/Blanchard Road intersection.
- A water truck was on site November 26<sup>th</sup> during minor grading activities.

**CONDITION OF CERTIFICATION AQ-52  
ULTRA-LOW SULFUR DIESEL FUEL RECEIPTS**

METCALF ENERGY CENTER  
MONTHLY COMPLIANCE REPORT #14

# Coast Oil Company, LLC

"since 1935"

4250 WILLIAMS ROAD • SAN JOSE, CA 95129-3344

FED I.D. NO. 770584351  
RESALE NO. SR GH 97953643  
FUEL RESALE NO. SG GH 78020404

OFFICE (408) 252-7720  
OFFICE FAX (408) 255-5263  
PLANT (408) 251-0811  
ORDER DESK (408) 342-0222

REMIT TO: COAST OIL COMPANY, LLC  
4250 WILLIAMS ROAD  
SAN JOSE, CA 95129-3344

HAZARDOUS MATERIAL NUMBER  
CALL (PERS): 1-800-633-8253

DATE: 11-14-02  
INVOICE NUMBER 209858

SOLD TO: 1834  
DILLINGHAM CONSTRUCTION

P. O. BOX 1089  
PLEASANTON, CA 94566

(925) 463-3300

ORDERED BY

PURCHASE ORDER NUMBER

SHIP TO: 1834  
DILLINGHAM CONSTRUCTION

CORNER OF METCALF & MONTEREY  
METCALF JOB SITE  
SAN JOSE, CA  
(925) 463-3300

ROUTE NUMBER	DELIVERY DATE	TRUCK NUMBER	DRIVER	SALESMAN		TERMS	DUE DATE
				DEDEAUX	HTR NUMBER		
7		23	15	COC-82846			12-24-02
NO OF PKG'S	BULK OR PKG. SIZE	PRODUCT DESCRIPTION		QUANTITY ORDERED	QUANTITY DELIVERED	TAXES	MILES
GALS		RED ULTRA LOW SULPHUR DIESEL ECD1 FEDERAL SUPERFUND OIL SPILL FEE		800	800	X X T	0
		THURSDAY PLS. LEE BD 8:20 AM			746		

Coast Oil  
Company

PRODUCT	BEFORE	AFTER	HTR NO. / TANK I.D.	THIS INVOICE DOES NOT INCLUDE STATE OR FEDERAL EXCISE TAXES, SUPER FUNDS OR SURCHARGES UNLESS SHOWN AS A SEPARATE LINE ITEM.	SALES TAX	TOTAL ➔

1ST DUE AFTER  
If account unpaid within time permitted, customer agrees to pay interest at  
% per annum. In case of suit for collection,  
and Oil Co. a security interest in the inventory and the proceeds of inventory, Coast Oil Co., customer hereby grants to  
right to take immediate possession of customer's inventory. The undersigned hereby states that he is authorized to bind the customer to the terms hereof.

ERRORS IN PRICE, EXTENSION AND ADDITION SUBJECT TO CORRECTION.

PAID IN GOOD ORDER

A PRINTED NAME

*John Doe*

CHECK NO.

CHECK AMOUNT

PLEASE PAY FROM THIS INVOICE

**CONDITION OF CERTIFICATION AQ-52  
OFF-ROAD DIESEL FIRED EQUIPMENT USAGE LISTS**

METCALF ENERGY CENTER  
MONTHLY COMPLIANCE REPORT #14

**CONTRACTOR:** Dillingham Construction (Pile drivers)**DATE:** November 2002

This form must be completed before site mobilization and must include all equipment that will be used on site.  
\*\* All diesel equipment must use ultra low sulfur diesel fuel. Engine idle time must be limited to 10 minutes or less.

Equipment ID	Year	Make	Model	Serial #	Engine HP	# of days equipment planned usage	Actual date usage started	Actual date usage stopped	Type of mitigation implemented (e.g., CARB, CDPF)
13-240 Wheel loader	1998	CAT	966HII	1SL03016	220	Daily / October - March	10/21/02	N/A	CARB
Crane	1978	Manitowoc	4000W	403038	360	Daily / October - March	10/22/02	N/A	None. Received exemption on cranes from CMM.
Variable Reach Forklift	1997	Gradall	534C	C266112	116	Daily / November - March	10/26/02	N/A	EPAT certified
185 CFM Compressor	1997	T-R	TR0185WT	282392	80	Daily / October - March	10/28/02	N/A	< 100 HP
400 AMP Weld Machine	1998	Lincoln	F14222	U1980306565	44	Daily / October - March	10/28/02	N/A	< 100 HP
500 AMP Weld Machine	1999	Lincoln	3K1639-2	U1990604312	50	Daily / October - March	10/28/02	N/A	< 100 HP
Diesel Pile Hammer	1995	ICE	640		90	Daily / October - March	10/28/02	N/A	< 100 HP
Diesel Pile Hammer	Rental	APE	D25		80	Daily / October - March	10/28/02	N/A	< 100 HP

**CONTRACTOR:** Dillingham Construction (Pile drivers)**DATE:** November 2002

This form must be completed before site mobilization and must include all equipment that will be used on site.

\*\* All diesel equipment must use ultra low sulfur diesel fuel. Engine idle time must be limited to 10 minutes or less.

Diesel Pile Hammer	Rental	APE	D 25	80	Daily / October - March	10/28/02	N/A	< 100 HP

CMM Signature: 

Comments: \_\_\_\_\_

Date: 12/3/02

**CONTRACTOR:** Sheedy Drayage Co.

DATE: November 2002

This form must be completed before site mobilization and must include all equipment that will be used on site. \*\*\* All diesel equipment must use ultra low sulfur diesel fuel. Engine idle time must be limited to 10 minutes or less.

QUINI ENGINEERING;

6613289030:

Dec-3-02 2:14PM:

Page 4/4

CMM Sigma

### Comments

Metcalf Energy Center Equipment Usage List

**CONDITION OF CERTIFICATION BIO-2  
SUMMARY OF BIOLOGICAL MONITORING**

METCALF ENERGY CENTER  
MONTHLY COMPLIANCE REPORT #14

**Biological Resources**  
**Mitigation Monitoring for the**  
**Metcalf Energy Center**

**MONTHLY COMPLIANCE REPORT #14**

**November 2002**

**Prepared by:**

**CH2M HILL**

**2485 Natomas Park Drive, Suite 600**

**Sacramento, California 95833**

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# **METCALF ENERGY CENTER**

## **MONTHLY COMPLIANCE REPORT**

**November 2002**

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- A) Cumulative Wildlife Species Observed in or Near the Project Area**
- B) WEAT Sign-In Sheets**
- C) Photographs**

# INTRODUCTION

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The Metcalf Energy Center (MEC) site is located in the Santa Clara Valley within the Urban Service Area of south San Jose. The MEC will be a 600-megawatt natural-gas-fired combined cycle power plant with the following features:

- A 230-kilovolt (kV) switchyard and approximately 240 feet of new 230-kV transmission line that will loop into the existing Pacific Gas and Electric (PG&E) 230-kV Metcalf-Monta Vista No. 4 transmission on Tulare Hill.
- An approximately one mile, 16-inch natural gas pipeline that will connect to an existing PG&E transmission backbone pipeline that runs along the eastern side of U.S. 101.
- An approximately 10.2-mile water pipeline from a tap into the South Bay Water Recycling Program's (SBWR) existing main pipeline in eastern San Jose will be used for cooling water.
- An approximately 1.2-mile water pipeline will supply domestic and backup water supplies.
- A stormwater detention basin and discharge outfall structure to Fisher Creek.
- A new access road from Monterey Road at the Blanchard Road junction and visual screening and landscape corridor along the new access road that will require 6 acres of agricultural land south of the MEC site.
- A second access road (west access road) may extend from Santa Teresa Boulevard to the MEC site that will require 2.0 acre of agricultural land.
- Two temporary construction laydown yards totaling 24.8-acres are located in agricultural land south of the MEC site.

The project was designed to avoid significant negative impacts to sensitive biological resources to the furthest extent feasible. Mitigation measures were developed through consultation with the U. S. Fish and Wildlife Service (FWS), U. S. Army Corps of Engineers (USACE), National Marine Fisheries Service (NMFS), California Department of Fish and Game (CDFG), and the Water Quality Control Board (Water Board) to minimize unavoidable project impacts. Permits and authorizations from these agencies included conditions that must be monitored by the Designated Biologist. The Biological Monitor will be present onsite during all phases of construction to ensure compliance with the mitigation measures outlined in the *Biological Resources Mitigation Implementation and Monitoring Plan* (BRMIMP). The following report includes all MEC project activities monitored during November 2002.

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## **MONITORED MITIGATION MEASURES**

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Mitigation measures were developed through consultation with FWS, NMFS, CDFG, Water Board, USACE, and California Energy Commission (CEC) for the MEC project. Compliance with any conditions of the USACE, Water Board, and CDFG permits will be included when permits are received and used on the project.

Conditions of Certification (COC) BIO-1 through BIO-13 were in compliance during November 2002. In compliance with COC BIO-2, the Biological Monitor examined and cleared Phase 1 activity areas immediately prior to and during November activities.

The following conditions described in the FWS Biological Opinion (BO) remained pertinent to the November monitoring efforts:

- Garbage must be removed from the site.
- Activity must be limited to the minimum necessary.
- The boundaries of the site will be clearly marked.
- All equipment, personnel, and access shall be confined to designated work areas and connecting roadways.
- Refueling will occur at least 50 feet away from aquatic habitats.
- Weekly California red-legged frog surveys will be conducted in work areas (following the 10 days of daily surveys conducted in January).
- Bullfrogs found during amphibian surveys, including adult, subadult, and larval bullfrogs, shall be captured and killed.
- The Biological Monitor will inspect the erosion control features daily.
- Concrete trucks must be washed within a designated area with a surrounding berm.

All activities complied with conditions described in the NMFS BO. Work near Coyote Creek, where NMFS has jurisdiction over anadromous fish (salmon and steelhead), will occur in the summer 2003.

The Monitor was available throughout the month to respond to biological issues as needed. November activities are described as follows.

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# **SUMMARY OF ACTIVITIES**

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This report includes project activities that took place during November 2002. November activities included ongoing Phase 1 site preparation, MEC Ecological Preserve riparian enhancement, and presentation of the Worker Environmental Awareness Training (WEAT) program to in-coming project personnel. The following provides a description of these activities. A cumulative wildlife species list is included in Appendix A. WEAT sign-in sheets are included in Appendix B. Representative photographs of November activities are included in Appendix C. The Biological Monitor completes daily logs summarizing activities, personal interactions, and observations. These logs are available on request.

## **Phase 1 Site Preparation**

November Phase 1 site activities included ongoing pile driving, and continued equipment transport/storage onto the laydown yards. These activities will likely continue into December 2002.

The Biological Monitor performed general and species-specific wildlife clearance surveys immediately prior to and during all ground disturbance activities. The Biological Monitor continued to survey for injured, dead, and entrapped wildlife throughout each construction zone.

### ***Pile Driving***

Power plant features including cooling towers, CTGs, and other heavy hardware will require the sub-surface installation of steel piles. Pile driving on the footprint site was ongoing during the month of November 2002. Pile driving will likely continue through the coming weeks until phase 2 of plant construction begins.

On November 21<sup>st</sup> and 26<sup>th</sup>, 2002, minor excavation occurred to allow placement of several steel piles located adjacent to an existing sub-excavation. Excavated soil was moved to the existing soil stockpile located on the north laydown yard.

The Biological Monitor performed spot checks to ensure that work complied with all CEC COCs. No construction related activity occurred within the Fisher Creek riparian corridor.

### ***Power Plant Materials Storage***

Heavy haul trucks continued to transported equipment onto the north and south laydown yards. Traffic was confined to previously established roads. These activities will continue through the coming months.

### **Ecological Preserve Riparian Enhancement**

As part of mitigation, Calpine will augment the Fisher Creek riparian corridor by planting native vegetation within designated enhancement areas. The Preserve's enhancement plan includes 4 planting areas. Enhancement areas #1 and #2 are located west of Fisher Creek at the foot of Tulare Hill. Enhancement areas #3 and #4 are located east of Fisher Creek adjacent to the MEC footprint site.

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Enhancement of the riparian corridor was designed to offset the loss of ordinance-sized trees removed during Phase 1 Site Preparation Activities. A list of native species to be planted is included in Appendix E of the project's Biological Resources Mitigation Monitoring Plan (BRMIMP). The plant species include, but are not limited to valley oak (*Quercus lobata*), buckeye (*Aesculus californica*), elderberry (*Sambucus mexicanus*), and coast live oak (*Quercus agrifolia*).

This month, the landscaping contractor worked within enhancement area #2 installing the main irrigation line and driplines. In addition, native vegetation was planted as per the BRMIMP. Fertilizer and mulch was applied to each native tree and/or shrub planted.

No work occurred within enhancement area #1. Holes excavated for planting last month were left open during November. The open holes were inspected daily by Calpine's Offsite Coordinator and/or the Biological Monitor. There were no reports and/or observations of entrapped wildlife in the open holes. The offsite coordinator will continue to inspect the open holes, reporting any entrapment to the Biological Monitor.

The Biological Monitor was onsite daily during enhancement activities to ensure compliance with CEC COCs. In addition, the monitor ensured that area resources were not negatively impacted by landscaping activities.

Initial enhancement work was completed November 6<sup>th</sup>. Planting activities will be conducted within 50 feet of the Fisher Creek banks following issuance of a Santa Clara Valley Water District (SCVWD) special-use permit. The permit is expected to be issued in December 2002.

## **WORKER ENVIRONMENTAL AWARENESS TRAINING**

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The WEAT program was developed exclusively for the MEC project. Program materials include a handbook, video, and poster. During November, the WEAT program was administered as required by BIO-6 of the COC from the CEC's *Commission Decision*.

In November, WEAT continued with the presentation of a training video and distribution of WEAT handbooks.

A total of 16 personnel received WEAT training during November for a total of 398 employees trained at the MEC. The Calpine Compliance Manager administered the WEAT training to all new November employees in the absence of the Biological Monitor. A list of November WEAT attendees is included in Appendix B. Signed affidavits are kept on file by both Calpine's Compliance Manager and the Designated Biologist.

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## **GENERAL NOTES AND OBSERVATIONS**

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November activities were minimal with most site activities confined to previously disturbed areas. The Biological Monitor's duties were limited accordingly. The Biological Monitor remained on-call for most of the month. Although Phase 1 activities are ongoing (e.g. equipment delivery, pile driving), the Biological Monitor's duties will likely remain limited until the commencement of Phase 2.

Additional erosion control measures were implemented within the project site. Slope protection consisting of erosion control blankets was installed along the project's elevated switchyard pad north of the footprint site. On November 4<sup>th</sup>, 2002, hydro-seeding was applied throughout the project site.

On November 9<sup>th</sup>, 2002, the Biological Monitor inspected the project's erosion control measures following a rain event resulting in over an inch of rain. Silt fence, straw waddles, and erosion control blankets were in good repair and function. Previously applied hydro-seeding remained intact. Overall, erosion and sedimentation was minimal and did not impact area resources. The rain events resulted in excessive pooling of water adjacent to the temporary office center. On November 26<sup>th</sup>, 2002, additional grading was performed to provide improved drainage near the offices and septic tanks.

## **APPENDIX A**

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### **Cumulative Wildlife Species Observed In or Near the Project Area**

**Cumulative Wildlife Species Observed In or Near the Metcalf Energy Center Project  
and Linear Facilities Area (May 2001 to November 30, 2002)**

Common Name	Scientific Name	Location
<b>INSECTS</b>		
Bay checkerspot butterfly	<i>Euphydryas editha</i> spp. <i>Bayensis</i>	TH
Cabbage white butterfly	<i>Pieris rapae</i>	EC
Anise swallowtail butterfly	<i>Papilio zelicaon</i>	TH
Buckeye butterfly	<i>Precis coenia</i>	TH
Painted lady butterfly	<i>Vanessa cardui</i>	EC
Opler's longhorn moth	<i>Adela oplerella</i>	TH
Tarantula	<i>Euryopelma californicum</i>	TH
<b>AMPHIBIANS AND REPTILES</b>		
Pacific tree frog	<i>Hyla regilla</i>	TH, FC, EC
Arboreal salamander	<i>Aneides lugubris</i>	TH, EC
Western fence lizard	<i>Sceloporus occidentalis</i>	EC, TH, LA, FC
Side-blotched lizard	<i>Uta stansburiana</i>	EC
Southern alligator lizard	<i>Elgaria multicarinata</i>	EC, TH
Western skink	<i>Eumeces skiltonianus</i>	TH
Gopher snake	<i>Pituophis melanoleucus</i>	EC, LA, FC
<b>BIRDS</b>		
Pied-billed grebe	<i>Podilymbus podiceps</i>	FC, CC
American white pelican	<i>Pelecanus erythrorhynchos</i>	EC*
Double-crested cormorant	<i>Phalacrocorax auritus</i>	CC*
Canada goose	<i>Branta canadensis</i>	EC*, CC
Mallard	<i>Anas platyrhynchos</i>	FC, CC
Gadwall	<i>Anas strepera</i>	FC
Wood duck	<i>Aix sponsa</i>	FC, CC
Common merganser	<i>Mergus merganser</i>	FC
Hooded merganser	<i>Lophodytes cucullatus</i>	FC
American coot	<i>Fulica americana</i>	FC, CC
Great blue heron	<i>Ardea heroides</i>	FC
Green heron	<i>Butorides virescens</i>	FC, CC
Great egret	<i>Casmerodius albus</i>	FC
Killdeer	<i>Charadrius vociferus</i>	LA, LEA*, EC
White-tailed kite	<i>Elanus caeruleus</i>	FC
Northern harrier	<i>Circus cyaneus</i>	FC, TH
<b>Locations</b>		
CEC = Cowden Creek Riparian Corridor		FC = Freshwater Fish Ecological Present
MEC = Metcalf Energy Center Plant Site		LA = Transmission Line Corridor
GC = Galena Creek Riparian Corridor		WL = Water Line Corridor
GL = Gas Pipe Line Corridor		LEA = Levee and Flood Protection Area
DA = Daydown Area		
<b>Notes</b>		
*Polygons for other areas include linear areas.		
**No data collected in areas near the nest tracks.		

**Cumulative Wildlife Species Observed In or Near the Metcalf Energy Center Project  
and Linear Facilities Area (May 2001 to November 30, 2002) (Continued)**

Common Name	Scientific Name	Location
<b>BIRDS (continued)</b>		
Turkey vulture	<i>Cathartes aura</i>	EC*, TH, LA
Golden eagle	<i>Aquila chrysaetos</i>	TH
Osprey	<i>Pandion haliaetus</i>	CC*, TH, EC, FC
Sharp-shinned hawk	<i>Accipiter striatus</i>	FC, TH
Cooper's hawk	<i>Accipiter cooperii</i>	CC, EC*, FC
Red-shouldered hawk	<i>Buteo lineatus</i>	EC, FC, LA, CC, LEA
Red-tailed hawk	<i>Buteo jamaicensis</i>	EC, FC, GP, TH, TL, CC
American kestrel	<i>Falco sparverius</i>	EC, TH
Prairie falcon	<i>Falco mexicanus</i>	TH
California quail	<i>Callipepla californica</i>	CC, GP
Spotted sandpiper	<i>Actitis macularia</i>	FC
Mourning dove	<i>Zenaida macroura</i>	EC, FC, TH, TL, CC
Rock dove	<i>Columba livia</i>	EC*, TH*
Anna's hummingbird	<i>Calypte anna</i>	TH, CC
Hummingbird sp.		EC, TH, FC
Belted kingfisher	<i>Ceryle alcyon</i>	FC, EC*, CC
Northern flicker	<i>Colaptes auratus</i>	EC, FC, TH
Nuttall's woodpecker	<i>Picoides nuttallii</i>	FC, EC
Downy woodpecker	<i>Picoides pubescens</i>	EC, FC
Black phoebe	<i>Sayornis nigricans</i>	EC, FC, TL, LEA, CC
Say's phoebe	<i>Sayornis saya</i>	LEA
Western scrub-jay	<i>Aphelocoma californica</i>	EC, FC, LEA, CC
Common raven	<i>Corvus corax</i>	EC, TH, FC, CC
Horned lark	<i>Eremophila alpestris</i>	TH
Cliff swallow	<i>Petrochelidon pyrrhonota</i>	FC, EC, TL
Barn swallow	<i>Hirundo rustica</i>	EC, LEA
Oak titmouse	<i>Baeolophus inornatus</i>	FC, CC
Chestnut-backed chickadee	<i>Poecile rufescens</i>	FC
Bushtit	<i>Psaltriparus minimus</i>	EC, FC, FC**, GP, TL, CC
White-breasted nuthatch	<i>Sitta carolinensis</i>	FC
Bewick's wren	<i>Thryomanes bewickii</i>	FC, TH, CC
Rock wren	<i>Salpinctes obsoletus</i>	FC, TH
<b>Definitions</b>		
EC = Cawley Creek Corridor		LA = Lower Arkansas River Valley
FC = Metcalf Energy Center Plant Site		ML = Marmaton River Line
GP = Glass Creek Repair and Corridor		TL = Transmission Line Corridor
GP = Gas Pipe Line Corridor		WL = Water Line Corridor
LA = Lower Arkansas River		WL = Wydown Wetland Area
<b>Notes:</b>		
* Only observed in or near the Metcalf Energy Center Project area.		
** Non active. (GP = Gas pipe line, ML = Marmaton River line)		

**Cumulative Wildlife Species Observed In or Near the Metcalf Energy Center Project  
and Linear Facilities Area (May 2001 to November 30, 2002) (Continued)**

Common Name	Scientific Name	Location
<b>BIRDS (CONTINUED)</b>		
Ruby-crowned kinglet	<i>Regulus calendula</i>	TH, FC, CC
Northern mockingbird	<i>Mimus polyglottos</i>	EC, FC
Western bluebird	<i>Sialia mexicana</i>	FC, CC, EC, LEA
American robin	<i>Turdus migratorius</i>	LA, EC, CC
Loggerhead shrike	<i>Lanius ludovicianus</i>	TH, FC, EC
Western kingbird	<i>Tyrannus verticalis</i>	CC
European starling	<i>Strunus vulgaris</i>	LEA, FC, EC
Rose-breasted grosbeak	<i>Pheucticus ludovicianus</i>	EC
California towhee	<i>Pipilo crissalis</i>	EC, TH, FC, CC
Dark-eyed junco	<i>Junco hyemalis</i>	FC, TH, CC
White-crowned sparrow	<i>Zonotrichia leucophrys</i>	EC, FC, TH, CC
Song sparrow	<i>Melospiza melodia</i>	EC, LA, LEA
Yellow-rumped warbler	<i>Dendroica magnolia</i>	TH, FC, CC
Western meadowlark	<i>Sturnella neglecta</i>	EC, LA, TH
Red-winged blackbird	<i>Agelaius phoeniceus</i>	FC
Brewer's blackbird	<i>Euphagus cyanocephalus</i>	FC, EC, CC
Bullock's oriole	<i>Icterus bullockii</i>	FC, CC
House finch	<i>Carpodacus mexicanus</i>	EC, CC, FC
American goldfinch	<i>Carduelis tristis</i>	LEA
Lesser goldfinch	<i>Carduelis psaltria</i>	EC, FC, CC, TH
House sparrow	<i>Passer domesticus</i>	EC, FC, CC
<b>MAMMALS</b>		
Common raccoon	<i>Procyon lotor</i>	FC**
Striped skunk	<i>Mephitis mephitis</i>	TH**
Opossum	<i>Didelphis marsupialis</i>	EC
Coyote	<i>Canis latrans</i>	TH
Feral cat	<i>Felis catus</i>	EC
Bobcat	<i>Lynx rufus</i>	CC**
California ground squirrel	<i>Spermophilus beechyi</i>	EC, FC, TH, TL
Western gray squirrel	<i>Sciurus griseus</i>	FC
Valley pocket gopher	<i>Thomomys bottae</i>	LA**
California vole	<i>Microtus californicus</i>	FC
<b>Location</b>		
CC = Coyote Creek/Ribbon Corridor	TL = Tule Lake Linear Corridor	
EC = Metcalf Energy Center Plant Site	FC = Transmission Line Corridor	
FC = Fisher Creek/Ribbon Corridor	WT = Waterline Corridor	
GP = Gas Pipe line corridor	TLA = Tule Lake expansion area	
LA = Laydown area		
<b>Notes</b>		
** = New or other wise not utilized successfully		
** = INDIE GATE STATION (e.g. access, feather test track)		

**Cumulative Wildlife Species Observed In or Near the Metcalf Energy Center Project  
and Linear Facilities Area (May 2001 to November 30, 2002) (Continued)**

Common Name	Scientific Name	Location
<b>MAMMALS (CONTINUED)</b>		
Deer mouse	<i>Peromyscus maniculatus</i>	TH
Norway Rat	<i>Rattus norvegicus</i>	EC
Common muskrat	<i>Ondatra zibethicus</i>	FC
Black-tailed jackrabbit	<i>Lepus californicus</i>	EC
Feral pig	<i>Sus scrofa</i>	CC**
Mule (black-tailed) deer	<i>Odocoileus hemionus</i>	FC, GP, CC
<b>Location</b>		
CC—Coyote Creek Riparian Corridor	TH—Julian Hill Ecologic Preserve	
MC—Metcalf Energy Center Plant Site	TL—Transmission Line Corridor	
FC—Fishter Creek Riparian Corridor	WL—Water Line Corridor	
GP—Gas Pipeline Corridor	TLA—Taylorsville Landfill Area	
SLA—Swallow Area		
<b>Notes:</b>		
*Lever or otherwise to hunting are resources.		
**Non-typical sign (i.e., carcass, feather, nest, track)		

## **APPENDIX B**

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### **WEAT Sign-In Sheets**

METCALF ENERGY CENTER  
ENVIRONMENTAL TRAINING  
SIGN-IN SHEET  
*(Biology, Archaeology, & Paleontology)*

DATE: 11/16/02

**PLEASE NOTE:**

*By signing below, I acknowledge that I have attended the Worker Environmental Awareness Training Program for the Metcalf Energy Center Project, and I agree to comply with all the environmental requirements presented.*

Instructor(s): WEAT VIDEO (Administered by Todd Woodward)  
K.O'KANE

METCALF ENERGY CENTER  
ENVIRONMENTAL TRAINING  
SIGN-IN SHEET  
*(Biology, Archaeology, & Paleontology)*

DATE: 4/13/02

**PLEASE NOTE:**

*By signing below, I acknowledge that I have attended the Worker Environmental Awareness Training Program for the Metcalf Energy Center Project, and I agree to comply with all the environmental requirements presented.*

**Instructor/s:**

WEAT VIDEOS (Administered by Todd Ellwood)  
K.O'KANE

METCALF ENERGY CENTER  
ENVIRONMENTAL TRAINING  
SIGN-IN SHEET  
*(Biology, Archaeology, & Paleontology)*

DATE: 11-20-02

**PLEASE NOTE:**

*By signing below, I acknowledge that I have attended the Worker Environmental Awareness Training Program for the Metcalf Energy Center Project, and I agree to comply with all the environmental requirements presented.*

Instructor/s:

WEAT VIDEO (Administered by Todd Ellwood)  
T. ROBERTSON x  
K. O'Kane

METCALF ENERGY CENTER  
ENVIRONMENTAL TRAINING  
SIGN-IN SHEET  
(*Biology, Archaeology, & Paleontology*)

DATE: 11-22-02

**PLEASE NOTE:**

*By signing below, I acknowledge that I have attended the Worker Environmental Awareness Training Program for the Metcalf Energy Center Project, and I agree to comply with all the environmental requirements presented.*

**Instructor/s:**

## WEAT VIDEO (Administered by Todd Ellwood)

(K.O'Kane & T. ROBERTS)

METCALF ENERGY CENTER  
ENVIRONMENTAL TRAINING  
SIGN-IN SHEET  
(Biology, Archaeology, & Paleontology)

DATE: 11/26/02

PLEASE NOTE:

By signing below, I acknowledge that I have attended the Worker Environmental Awareness Training Program for the Metcalf Energy Center Project, and I agree to comply with all the environmental requirements presented.

	Name (print)	Name (signature)	Company
①	RAY J. ORTIZ	<i>Ray J. Ortiz</i>	TOPGRADE
②	BRANDON L. DAWKIN	<i>Brandon L. Dawkin</i>	Dillingham
	Ken (Brandon) Motlock	<i>Ken Motlock</i>	Dillingham
	Billy Cedolini	<i>Billy Cedolini</i>	Top Grade
④	A. DOROTHY PHAMIAZI	<i>A. Dorothy Phamiazzi</i>	Top Grade
⑤	Emmitt Bolt	<i>Emmitt Bolt</i>	Top Grade
⑥	William G. Rowe	<i>William G. Rowe</i>	Sigmet Test Labs
⑦	Sam Grossman	<i>Samuel W. Grossman</i>	Calpine

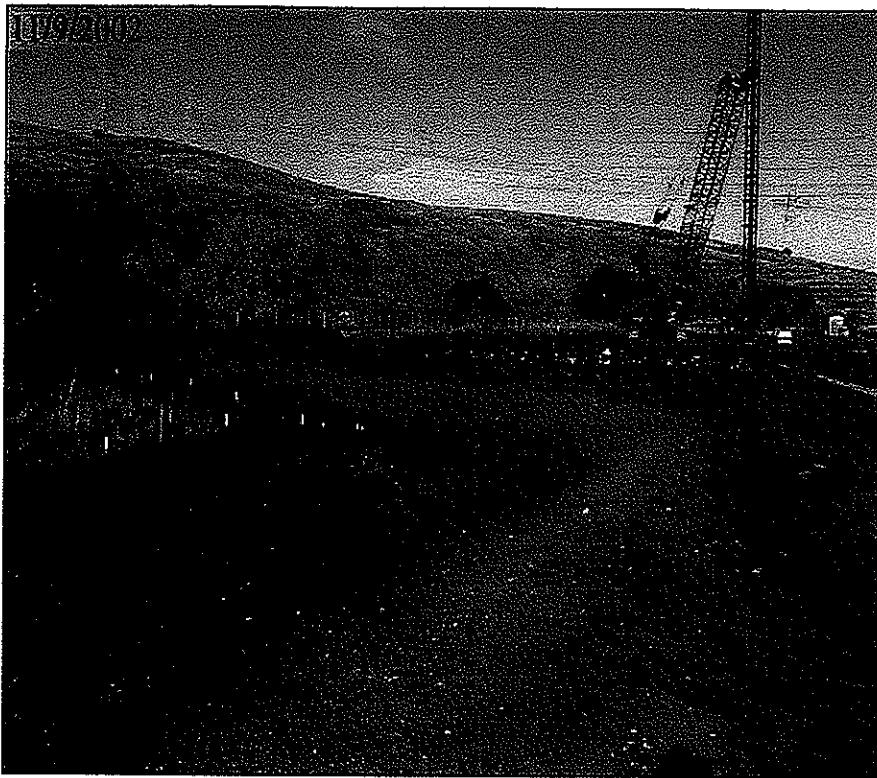
Instructor/s:

WEAT VIDEO (Administered by Todd Ellwood)

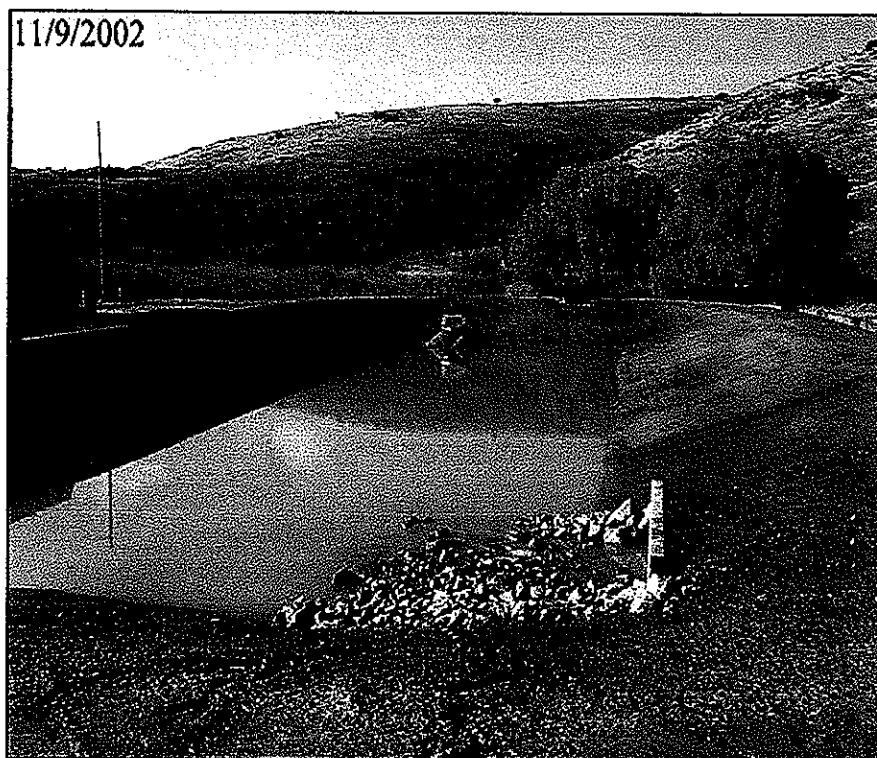
## **APPENDIX C**

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### **Photographs**



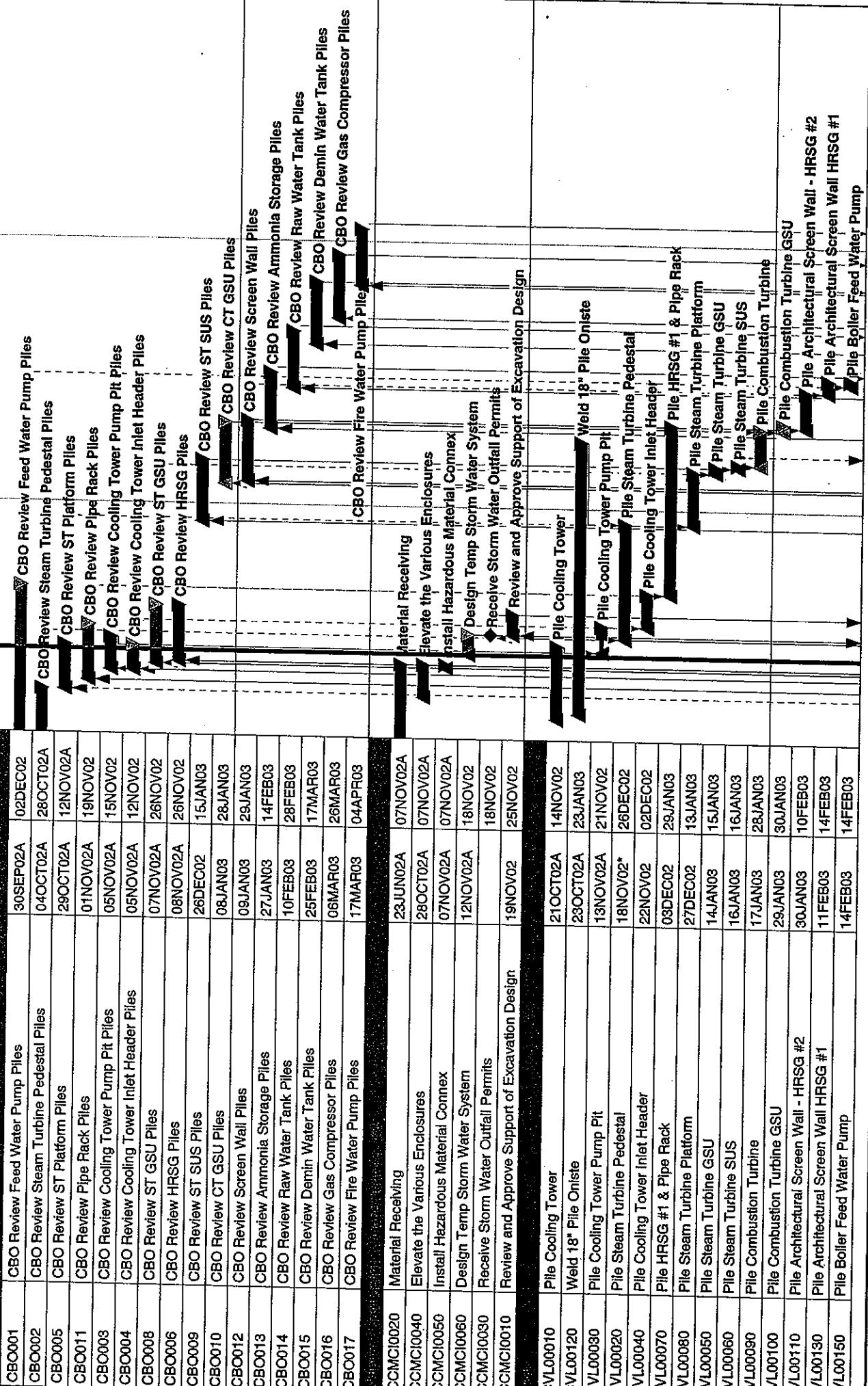
**Hydro-seeding Following Rain Event**



**Stormwater Basin Following Rain Event**

**CONDITION OF CERTIFICATION CUL-7  
WEEKLY SCHEDULES**

METCALF ENERGY CENTER  
MONTHLY COMPLIANCE REPORT #14



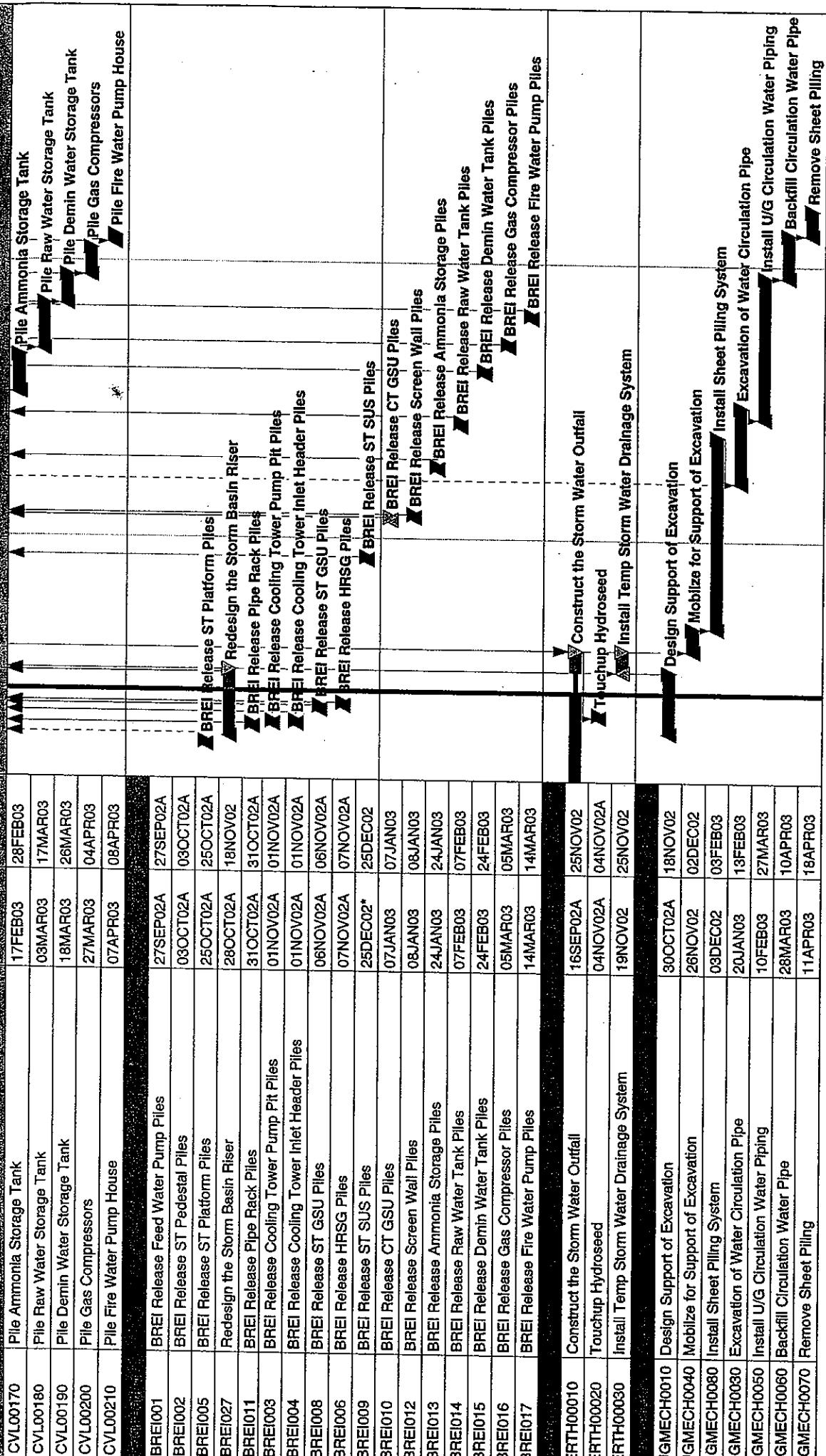
Sheet 1 of 2

Date	Revision

Approved

MEC 3 Week Rolling Schedule  
Rolling 3 Week Schedule

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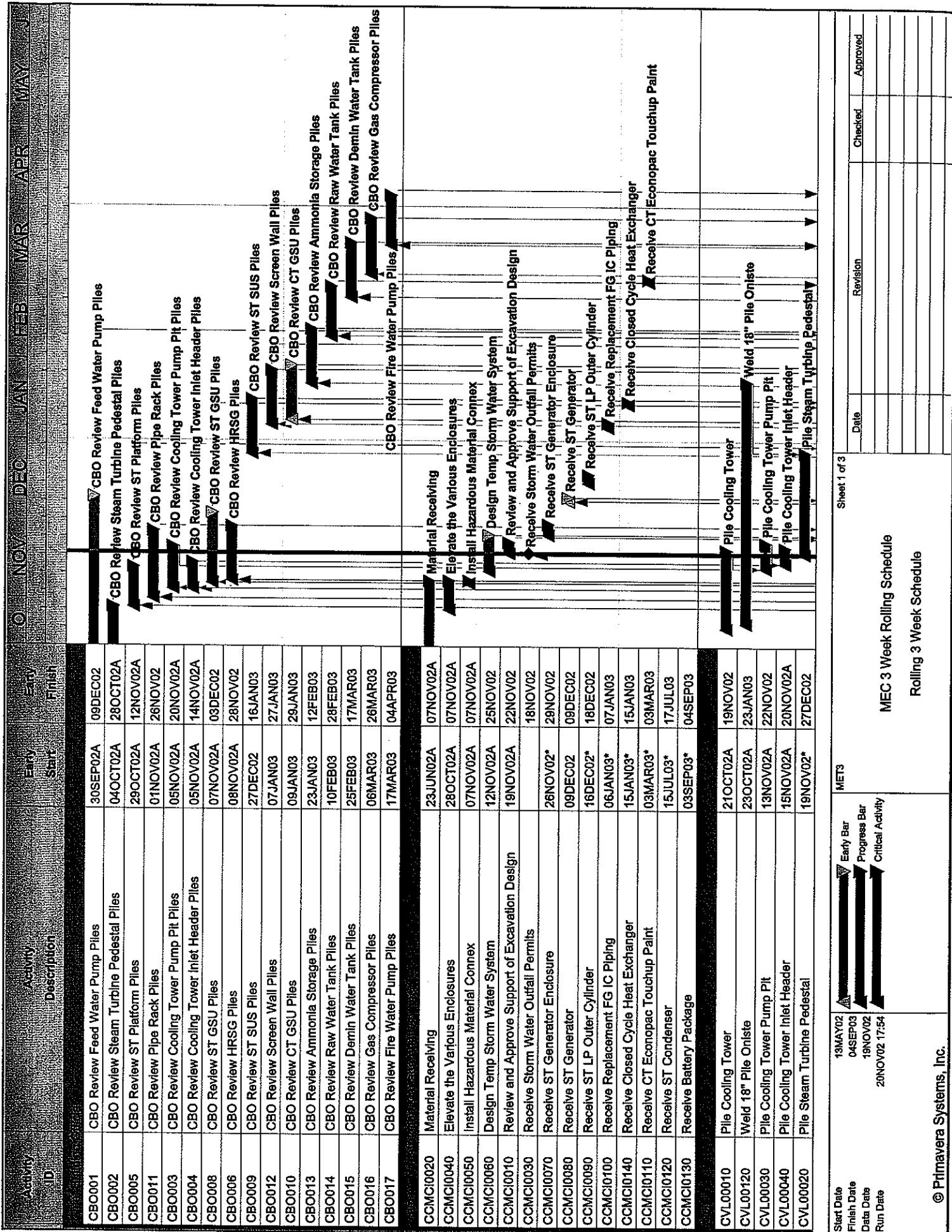
Sheet 2 of 2

METS

Date	Revision	Checked	Approved

MEC 3 Week Rolling Schedule

Rolling 3 Week Schedule





Activity ID	Activity Description	Start Date		End Date		Duration	Type
		Early Start	Early Finish	Late Start	Late Finish		
UGMECH0040	Mobilize for Support of Excavation	25NOV02	29NOV02				Mobilize for Support of Excavation
UGMECH0080	Install Sheet Piling System	02DEC02	31JAN03				Install Sheet Piling System
UGMECH0030	Excavation of Water Circulation Pipe	20JAN03	13FEB03				Excavation of Water Circulation Pipe
UGMECH0050	Install U/G Circulation Water Piping	10FEB03	27MAR03				Install U/G Circulation Water Piping
UGMECH0060	Backfill Circulation Water Pipe	28MAR03	10APR03				Backfill Circulation Water Pipe
UGMECH0070	Remove Sheet Piling	11APR03	18APR03				Remove Sheet Piling
SHDY0010	Assembly Gantry	05DEC02*	06DEC02				Assembly Gantry
SHDY0020	Disassemble Gantry	10DEC02	10DEC02				Disassemble Gantry

Date	Revision	Checked	Approved

Sheet 3 of 3

METS



Start Date  
Finish Date  
Data Date  
Run Date

20Nov02 17:54

MEC 3 Week Rolling Schedule  
Rolling 3 Week Schedule

**CONDITION OF CERTIFICATION PAL-4  
PALEO MONTHLY SUMMARY REPORT**

METCALF ENERGY CENTER  
MONTHLY COMPLIANCE REPORT #14

**Metcalf Energy Center Project**  
**Paleontological Resource Monitoring and Mitigation Program**

**Monthly Report**

**Project Name:** Metcalf Energy Center (MEC)

**Project Number:** 01-17

**Clients:** Calpine/CH2M Hill

**Month:** November 2002

**Designated Paleontological Resource Specialist:** Dr. Lanny H. Fisk, PhD, RG

**Monthly Report for November 2002:**

*During the month of November 2002, PaleoResource Consultants (PRC) continued to work with Calpine Corporation through its environmental consultants, CH2M Hill, to mitigate any potential adverse impacts to paleontological resources (fossils) which might result from construction of the Metcalf Energy Center (MEC) and associated linear facilities (including a natural gas pipeline, cooling-water supply line, and electrical transmission line) all located in south San Jose, California. In its Conditions of Certification (COCs) for MEC, the California Energy Commission (CEC) mandated that Calpine adopt Society of Vertebrate Paleontology (SVP) standard guidelines for the mitigation of construction-related adverse impacts on paleontological resources. In compliance with SVP standard guidelines, in September 2002 we recommended reducing paleontological monitoring at the MEC plant site to only spot checking specific deep excavations that would impact previously undisturbed sediment. The CEC approved this reduced monitoring plan. During November, since there were no deep excavations needing to be spot checked at the MEC plant site and no ground-disturbing activities along the right-of-way of linear facilities, no paleontological monitoring was performed.*

*Excavations for the natural-gas pipeline, cooling-water pipeline, and electrical transmission line are not scheduled to start until later. Full-time paleontological monitoring will be done at the beginning of excavations for each of these linear facilities. Then, in compliance with SVP standard guidelines, once one-half the excavations for each of these facilities is completed and if no significant fossils have been discovered, monitoring will be reduced to half-time, quarter-time, spot-checking, or suspended entirely. As startup of construction for these portions of the project nears, Calpine will contact PRC with specific dates.*

*Calpine Environmental Compliance Manager Kristen O’Kane continues to notify us regarding any scheduled excavations that would impact previously undisturbed sediments, asking if we thought that paleontological monitoring was necessary. In each case, since these excavations would only impact a few feet of undisturbed sediments and since we have not previously discovered paleontological resources at this shallow depth, we have responded that, in our professional opinion, no monitoring was necessary. PRC paleontological monitors are available and “on-call” for spot checking deep excavations at the MEC plant site and for monitoring of earth moving for the remainder of the MEC project whenever excavations begin.*

**CONDITION OF CERTIFICATION SOCIO-1  
PLANNED PROCUREMENT**

METCALF ENERGY CENTER  
MONTHLY COMPLIANCE REPORT #14

**SOCIO-1: List of planned procurement of materials or hiring outside the local regional area during the next two months.**

<b>Material/equipment</b>	<b>Manufacturer</b>	<b>Point of Origin</b>	<b>Reason</b>
Miscellaneous horizontal pumps	Out for bid		
PDC	Out for bid		

## **COMPLIANCE MATRIX**

**METCALF ENERGY CENTER  
MONTHLY COMPLIANCE REPORT #14**

## METCALF ENERGY CENTER COMPLIANCE MATRIX

Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM/CBO	Date approved by CPM/CBO	Status/Comments
START OF MOBILIZATION/ROUGH GRADING	11/14/2002						
START OF CONSTRUCTION	9/1/2002						
AQ-1	Minimize emissions of carbon monoxide (CO) and nitrogen oxides (NOx) from S-1 and S-3 GTs, and S-2 and S-4 HRSGs.	In Monthly Compliance Report indicate how this condition is being Implemented.	Monthly Compliance Report				
AQ-2	Turn combustors of S-1 & S-3 GTs and S-2 and S-4 HRSGs duct burners to minimize emissions of CO and NOx.	In Monthly Compliance Report indicate how this condition is being Implemented.	Monthly Compliance Report				
AQ-3	Install, adjust, and operate A-1 and A-2 SCR Systems to minimize emissions of CO and NOx from S-1 and S-3 GTs and S-2 and S-4 (HRSGs).	In Monthly Compliance Report indicate how this condition is being Implemented.	Monthly Compliance Report				
AQ-4	With steady-state operation of A-1 & A-2 SCR systems shall comply with NOx and CO emission limitations.	In Monthly Compliance Report indicate how this condition is being Implemented.	Monthly Compliance Report				
AQ-5	Submit plan to DPSD and CPM describing procedures to be followed during commissioning of GTs, HRSGs, and STGs.	At least 28 days prior to first firing of the gas turbines, submit a complete commissioning plan	28 days prior to first fire of Gas Turbines				
AQ-6	Demonstrate compliance with conditions 8-10 through the use of properly operated and maintained CEMs and data recorders.	In Monthly Compliance Report indicate how this condition is being Implemented.	Monthly Compliance Report				
AQ-7	Install, calibrate, operate District approved CEMs monitors prior to first firing of GTs and HRSGs.	In Monthly Compliance Report indicate how this condition is being Implemented.	Monthly Compliance Report				
AQ-8	Total no. of firing hours for S-1 GT and S-2 HRSG without abatement of A-1 SCR shall not exceed 300 hours during commissioning.	In the MCR indicate the cumulative number of firing without SCR. Submit a copy of the completion notice to CPM.	Monthly Compliance Report				
AQ-9	Total no. of firing hours for S-3 GT and S-4 HRSG without abatement of A-3 SCR shall not exceed 300 hrs during commissioning period.	In the MCR indicate the cumulative number of firing without SCR. Submit a copy of the completion notice to the CPM.	Monthly Compliance Report				
AQ-10	Total mass emissions of NOx, CO, POC, PM10, and SO2 emitted by the GTs and HRSGs during the commissioning period shall accrue towards the consecutive 12-month emission limitations.	In the MCR indicate the cumulative number of firing without SCR. Submit a copy of the completion notice to the CPM.	Monthly Compliance Report				
AQ-11	Combined daily emissions from GTs and HRSGs shall not exceed the following during the commissioning period: NOx = 4805; CO = 11,498; POC = 495; PM10 = 465; SO2 = 42.	In the monthly compliance report indicate any violations of the emission limits	Monthly Compliance Report				
AQ-12	Submit to District and CPM a detail source test plan and conduct District and CEC approved source test using external CEMs to determine compliance with Condition 21.	20 working days before the execution of the source tests, submit to the District and CPM a detailed source test plan designed to satisfy the requirements of this condition.	20 days prior to source test per AQ-12				
AQ-12	Submit to District and CPM a detail source test plan and conduct District and CEC approved source test using external CEMs to determine compliance with Condition 21.	Source test results shall be submitted to the District and the CEC CPM within 30 days of the source testing date.	Within 30 days of source tests per AQ-12 complete				
AQ-12	Submit to District and CPM a detail source test plan and conduct District and CEC approved source test using external CEMs to determine compliance with Condition 21.	Notify the District and the CEC CPM.	Within seven (7) working days prior to the planned testing date				

## METCALF ENERGY CENTER COMPLIANCE MATRIX

Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	To Crm/CBO	Date approved by Crm/CBO	Status/Comments
START OF MOBILIZATION/ROUGH GRADING	GTs (S-1, S-3) and HRSG (S-2, S-4) shall be fired exclusively on natural gas. (BACT for SO <sub>2</sub> and PM10)	As part of the semianual Air Quality Reports, indicate the date, time, and duration of any violation of this condition.	Semianual Air Quality Reports				
START OF CONSTRUCTION	Combined heat input rate of each power train (S-1 & S-2, S-3 & S-4) shall not exceed 2,124 MMBtu/hr (3-hour rolling average) (PSD for NO <sub>x</sub> )	As part of the Air Quality monthly Reports, include information on the date and time when the hourly fuel consumption exceed this hourly limit.	Monthly Air Quality Reports				
AQ-13	Combined heat input rate of each power train (S-1 & S-2 and S-3 & S-4) shall not exceed 49,908 MMBtu/day (PSD for PM10)	As part of the Air Quality monthly Reports, include information on the date and time when the hourly fuel consumption exceed this daily limit.	Monthly Air Quality Reports				
AQ-14	Combined cumulative heat input rate of GTs (S-1, S-3) and HRSG (S-2, S-4) shall not exceed 35,274,060 MMBtu/yr. (Cfseis)	As part of the Air Quality annual Reports, include information on the date and time when the annual cumulative fuel consumption exceed this annual limit.	Annual Air Quality Reports				
AQ-15	HRSGs (S-2, S-4) duct burners shall not be fired unless associated GTs (S-1, S-3) are in operation. (BACT for NO <sub>x</sub> )	As part of the Air Quality Reports, include information on the date, time, and duration of any violation of this permit condition.	Monthly Air Quality Reports				
AQ-16	GT/HRSG (S-1/S-2) shall be abated by the A-1 SCR system whenever fuel is combusted in these units and the A-1 catalyst bed has reached min. operating temperature.	As part of the semianual Air Quality Reports, provide information on any major problem in the operation of the Oxidizing Catalyst and Selective Catalytic Reduction Systems for the Gas Turbines and HRSGs.	Semianual Air Quality Reports				
AQ-17	GT/HRSG (S-3/S-4) shall be abated by the A-2 SCR system whenever fuel is combusted in these units and the A-2 catalyst bed has reached min. operating temperature.	As part of the semianual Air Quality Reports, provide info on any major problem in the operation of the Oxidizing Catalyst and Selective Catalytic Reduction Systems for the Gas Turbines and HRSGs.	Semianual Air Quality Reports				
AQ-18	Emission requirements: Emission Point P-1 NO <sub>x</sub> = 19.2 lbs/hr [0.00804 lbs/MMBTU] or nat. gas fired]; Emission Point P-2 NO <sub>x</sub> = 19.2 lbs/hr [0.00804 lbs/MMBTU] (HHV) of nat. gas fired].	As part of the semianual Air Quality Reports, indicate the date, time, and duration of any violation. Include quantitative info. on the severity of the violation.	Semianual Air Quality Reports				
AQ-19	NO <sub>x</sub> Emission concentration = 2.5 ppmvd (corrected to 15% O <sub>2</sub> ), 1-hr average [Emission Point P-1, P-2] (BACT for NO <sub>x</sub> ).	Same as above	Semianual Air Quality Reports				
AQ-20(a)	CO mass emission = 28.07 lbs/hr (at any 3-hour rolling avg.) [Emission Point P-1, P-2].	Same as above	Semianual Air Quality Reports				
AQ-20(c)	When the heat input to a CT exceeds 1700 MMBTU/hr (HHV), the CO emission concentration shall not exceed 6.0 ppmvd on dry basis and the CO mass emission rate shall not exceed 0.0132 lb/MMBTU at any 3-hr rolling average.	Same as above	Semianual Air Quality Reports				
AQ-20(d)	Ammonia (NH <sub>3</sub> ) emission concentration shall not exceed 5 ppmvd on dry basis, at any 3-hour rolling avg. Ammonia injection rate to A-1, A-2 to be verified through continuous recording of rate.	Same as above	Semianual Air Quality Reports				
AQ-20(e)							

METCALF ENERGY CENTER: COMPLIANCE MATRIX						
START OF MOBILIZATION/ROUGH GRADING		11/14/2002				
START OF CONSTRUCTION		9/1/2002				
Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Data submitted to CPM/CIO	Date approved by CPM/CIO
AQ-20(f)	Precursors or organic compounds (POC) mass emissions (as CH <sub>4</sub> ) shall not exceed 2.7 lbs/hr or 0.00128 lbs/MMBTU of natural gas fired. (Emission points P-1, P-2).	Same as above	Semiannual Air Quality Reports			Status/Comments
AQ-20(g)	Sulfur dioxide (SO <sub>2</sub> ) mass emissions at P-1, P-2 each shall not exceed 1.28 pounds per hour or 0 .0006 lb /MM BTU of natural gas fired. (BACT)	Same as above	Semiannual Air Quality Reports			
AQ-20(h)	PM10 mass emission s at P-1, P-2 each shall not exceed 9 pounds per hour or 0.00452 lb PM10/MM BTU. Particulate matter (PM10) mass emissions at P-1, P-2 each shall not exceed 12 pounds per hour or 0.00555 lb PM10/MM BTU, when HRSG duct burners are in operation.	Same as above	Semiannual Air Quality Reports			
AQ-21	GT (S-1, S-3) Start-up and Shutdown emission rates. Same as above		Semiannual Air Quality Reports			
AQ-22	Not more than one GT (S-1, S-2) shall be in start-up mode at any one time.	In the monthly compliance report indicate how this condition is being implemented.	Monthly Compliance Report			
AQ-23	HRSGs and ducting shall be designed such that an oxidation catalyst shall be readily installed if deemed necessary by APCO to insure compliance with CO emissions rates.	In the semiannual compliance report indicate how this condition is being implemented	Semiannual Air Quality Reports			
AQ-24	Total combined emissions in lbs/day, from GTs and HRSGs (S-1, S-2, S-3, S-4), including start-up and shutdown.	As part of the semiannual Air Quality Reports, indicate the date of any violation of this Condition including quantitative information on the severity of that violation.	Semiannual Air Quality Reports			
AQ-25	Cumulative combined emissions in tons/year consecutive 12-month period, from GTs and HRSGs shall not exceed NO <sub>x</sub> = 123.4 (offsets), CO=588, POC=28 (offsets), PM10=91.3 (offsets), SO <sub>2</sub> =10.6 (cumulative increases).	As part of the semiannual Air Quality Reports, indicate the date of any violation of this Condition including quantitative information on the severity of the violation.	Semiannual Air Quality Reports			
AQ-26	Maximum projected combined annual toxic air contaminant emissions from GTs and HRSGs (S-1, S-2, S-3, S-4). (a) formaldehyde = 3.795 lbs/yr (b) Benzene = 480 lbs/yr (c) PAHs=22.8 lbs/yr	As part of the annual Air Quality Reports, indicate the date, duration, and severity of any violation including quantitative information on the severity of the violation.	Annual Air Quality Reports			
AQ-26	Perform health risk assessment using emission rates per BAAQMD approved procedures and submit risk analysis to District and CPM.	As part of the annual Air Quality Reports, indicate the date of any violation of this Condition including quantitative information on the severity of the violation or submit risk analysis to District and CPM.	Within 60 days of source test date			
AQ-27 (a-d)	Demonstrate compliance with conditions 14-17, 20(e-d), 21, 22, 24(e), 24(b), 25(a), 25(b) by using continuous monitors during all operating hours for the following parameters.	As part of the annual Air Quality Reports, indicate the date of any violation of this Condition including quantitative information on the severity of the violation.	Annual Air Quality Reports			

METCALF ENERGY CENTER: COMPLIANCE MATRIX						
START OF MOBILIZATION/ROUGH GRADING		11/14/2002				
START OF CONSTRUCTION		9/1/2002				
Condition No.	Requirements & Task Summary	Action Required	Event	Required Submittal Date	Date submitted to CPM/CBO	Date approved by CPM/CEO
AQ-27(e-f)	Use parameters in condition 27(a-d) and District approved methods to calculate the following: (e) Heat input rate for S-1 & S-2 combined, and S-3 & S-4 combined (f) Corrected NOx and CO concentrations and mass emissions at each exhaust point (P-1, P-2).	As part of the annual Air Quality Reports, indicate the date of any violation of this Condition including quantitative information on the severity of the violation.	Annual Air Quality Reports			
AQ-27(g-i)	For each source, source grouping, or exhaust point record parameters at least once every 15 minutes and calculate and record for the following. Refer to AQ-27 for further details.	As part of the annual Air Quality Reports, indicate the date of any violation of this Condition including quantitative information on the severity of the violation.	Annual Air Quality Reports			
AQ-28(a-b)	Demonstrate compliance with conditions 20, 21, 24, 25 by calculating and recording on a daily basis POC, PM10, and SC2 mass emissions from PM10 and SO2 from each power train.	As part of the monthly Air Quality Reports, the owner/operator shall indicate the date of any violation including quantitative information on the severity of the violation.	Monthly Air Quality Reports			
AQ-29	Calculate and record on annual basis the max. projected annual emissions of formaldehyde, benzene, Specified Poly-Aromatic Hydrocarbons (PAH's).	As part of the annual Air Quality Reports, indicate the date of any violation of this Condition including quantitative information on the severity of the violation.	Annual Air Quality Reports			
AQ-30	Within 60 days of startup, conduct a District-approved source test on exhaust points P-1 or P-2 to determine the corrected ammonia concentration to determine compliance with condition 20(e).	Source test protocols shall be submitted at least 90 days before startup. Approval of the source test protocols and the source test reports shall be deemed as verification for this condition.	90 days before startup			
AQ-30	Conduct a District-approved source test on exhaust points P-1 or P-2 to determine the corrected ammonia concentration to determine compliance with condition 20(e).	Conduct test within 60 days of startup	Within 60 days of startup			
AQ-30	Conduct a District-approved source test on exhaust points P-1 or P-2 to determine the corrected ammonia concentration to determine compliance with condition 20(e).	Submit source test results to the District and to the CEC CPM.	Within 30 days of the tests			
AQ-30	Conduct a District-approved source test on exhaust points P-1 or P-2 to determine the corrected ammonia concentration to determine compliance with condition 20(e).	Notify the District and the CEC CPM.	Within seven working days before the execution of the source tests,			
AQ-31	Conduct a District-approved source test on exhaust points P-1and P-2 while each GT and HRSG are operating at max load.	Submit source test protocols. Approval of the source test protocols and the source test reports shall be deemed as verification for this condition.	90 days before startup			
AQ-31	Conduct a District-approved source test on exhaust points P-1and P-2 while each GT and HRSG are operating at max load.	Conduct test within 60 days of startup and on annual basis thereafter.	Within 60 days startup			
AQ-31	Conduct a District-approved source test on exhaust points P-1and P-2 while each GT and HRSG are operating at max load.	Notify the District and the CEC CPM.	Within seven (7) working days before the execution of the source tests			
AQ-31	Conduct a District-approved source test on exhaust points P-1and P-2 while each GT and HRSG are operating at max load.	Submit source test results to the District and to the CEC CPM.	Within 30 days of the date of the tests			

## METGATE ENERGY CENTER: COMPLIANCE MATRIX

Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date to CPM/CBO	Date submitted to CPM/CBO by CPM/CBO	Status/Comments
START OF CONSTRUCTION	1/14/2002 9/1/2002					
AQ-32	Obtain approval for all source test procedures from District Source Test Section and CPM prior to conducting tests. Obtain approval for all source test procedures from District Source Test Section and CPM prior to conducting tests.	Provide a copy of source test protocol. Notify the District's Source Test Section and the CEC CPM in writing of the Source Test Protocols and projected test dates at least 7 days prior to the testing date(s).	90 days before startup			
AQ-33	Conduct a District-approved source test within 60 days of startup on each exhaust point (P-1, P-2). Also test the GTs at minimum load.	Notify the District and the CEC CPM at least 7 working days before the owner/operator plans to conduct source testing as required by this condition.	Execution of the Source Tests within 60 days of startup			
AQ-34	Conduct a District-approved source test within 60 days of startup on each exhaust point (P-1, P-2). Also test the GTs at minimum load.	Conduct test.	Within 60 days of startup and on biennial basis thereafter			
AQ-35	Conduct a District-approved source test within 60 days of startup on each exhaust point (P-1, P-2). Also test the GTs at minimum load.	Source test results shall be submitted to the District and the CEC CPM.	Within thirty (30) days of conducting the test			
AQ-36	Submit all reports as required by District Rules or Regulations and in accordance with all procedures and time limits.	Submit a copy of test protocols at least 90 days before startup.	90 days before startup			
AQ-37	Maintain records and reports on site for a minimum of 5 years.	During site inspection, make all records and reports available to the District, California Air Resources Board, and CEC staffs.	AQ Inspection per AQ-35			
AQ-38	Notify District and CPM of any violations of these permit conditions.	Submission of these notifications as required by this condition is the verification of these permit conditions.	Violation of Permit Conditions			
AQ-39	Stack height of emission points (P-1, P-2) shall be at least 145 feet above grade at the stack base. (GT/HRGG stack height).	Submit the drawings for review and approval.	45 days prior to the release to the manufacturer	7/15/02	7/23/02	Submitted
AQ-40	Provide adequate stack sampling ports and platforms to enable the performance of source testing.	120 days before initial operation, submit to the BAAQMD and the CEC CPM a plan for the installation of stack sampling ports and platforms.	120 days before Initial Operation	2/1/04		
AQ-41	Provide adequate stack sampling ports and platforms to enable the performance of source testing.	Within 60 days of receipt of the plant, the BAAQMD will advise the Owner/Operator and the CPM of the acceptability of the plan.	Approval by BAAQMD and CPM after submittal			
AQ-42	Contact the BAAQMD Technical Services division regarding requirements for the continuous monitors, sampling ports, platforms, and source tests.	Contact the BAAQMD Technical Services	Within 180 days of issuance of Authority to Construct	8/12/02	7/29/02	In progress
AQ-43	Contact the BAAQMD Technical Services division regarding requirements for the continuous monitors, sampling ports, platforms, and source tests.	Notify the CEC CPM at least seven (7) working days before these contacts are made.	7 days before contacts are made	8/5/02	2/28/02	N/A Complete
AQ-44	Demonstrate valid ERCS in the amount of 212.75 tons/year of NOx and 28 tons/year of POC or equivalent as defined by District Regs 2-2-302.1 and 2-2-302.2.	Within 30 days after the issuance of an Authority to Construct, provide a copy of the ATC to the CEC CPM for review.	Within 30 days after issuance of Authority to Construct	3/15/02	2/22/02	N/A Complete

METCALF ENERGY CENTER: COMPLIANCE MATRIX						
START OF MOBILIZATION/ROUGH GRADING		START OF CONSTRUCTION				
Condition No.	Requirements & Task Summary		Action Required	Event	Required Submittal Date	Date submitted to CPM/CBO
AQ-41	Provide to District Vessel ERC banking certificates in the amount of 212.75 ton/yr of NOx and 28 tons/yr of VOCs or equivalent.		At least 30 days prior to the start of construction submit a copy of the required offset or ERCS certificates to the CPM.	30 days prior to start of construction	8/2/02	7/26/02
AQ-42	Submit an application to the BAAQMD for a major facility review permit within 12 months of the issuance of the PSD permit for the MEC.		Submit an application to BAAQMD major facility review permit. Notify the CEC CPM of the submission of this application.	Within 12 months of issuance of PSD Permit		1/9/02
AQ-42	Submit an application to the BAAQMD for a major facility review permit within 12 months of the issuance of the PSD permit for the MEC.		Submit to the CPM a copy of the Federal (Title IV) Operating Permit.	30 days after permit issued		Expect to receive permit in June 2003.
AQ-43	Submit an application to the District for a Title IV operating permit at least 24 months prior to the initial operation of any GT's or HRSGs.		Submit to the CPM a copy of the application for the Title IV operating permit.	24 months before Initial Operation		8/1/01
AQ-44	Comply with the continuous emission monitoring requirements of 40 CFR Part 75.		Submit to the CPM a plan on how the measurements and recordings required by this condition will be performed.	60 days before Initial Operation		
AQ-45	Take monthly samples of natural gas combusted at MEC and analyze these samples for sulfur content using District-approved lab methods.		Maintain on site the records of all the guarantees received from its natural gas suppliers indicating that the gas delivered to MEC complies with the 40 CFR Part 60, Subpart CG.	On-site Compliance Inspections		
AQ-46	Cooling towers shall be properly maintained to minimize drift losses.		Submit a performance guarantee letter from the cooling tower manufacturer.	30 days prior to installation of Cooling Tower per AQ-46		
AQ-47a	Perform visual inspection of cooling tower drift eliminators once per calendar year and repair or replace any drift eliminators which are broken or missing.		As part of the monthly Air Quality Reports, indicate the date of any violation of this Condition.	Monthly Air Quality Reports		
AQ-47b	Have cooling tower representative inspect the cooling tower drift eliminators and certify installation was performed in a satisfactory manner.		Have cooling tower representative inspect the cooling tower drift eliminators and certify installation.	Initial Operation		
AQ-47c	Perform an initial performance source test to determine the PM10 emission rate from the cooling tower to verify compliance with the vendor-guaranteed drift rate.		As part of the monthly Air Quality Reports, indicate the date of any violation of this Condition.	Within 60 days of initial operation of the cooling tower		
AQ-48	Implement a CPM Approved Fugitive Dust Control Plan during construction.		Submit the plan to the CEC CPM for review and approval.	60 days prior to start of construction	6/12/01	10/12/01
AQ-48	Implement a CPM Approved Fugitive Dust Control Plan during construction.		Maintain daily records to document the specific actions taken pursuant to the plan. Summary of activities in MCR.	Monthly Compliance Report		In progress
AQ-49	During construction owner shall:		The project owner shall maintain a daily log during the construction phase of the project. The logs shall be made available to the CEC CPM upon request.	Start of Construction		In progress
AQ-50	Identify the source of the fugitive dust and implement one or more of the appropriate control measures specified in Table 3.		Maintain a daily log recording the dates and times that measures have been implemented and make them available to the CEC CPM upon request.	Start of Construction		In progress

METCALF ENERGY CENTER-COMPLIANCE MATRIX						
Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM/CBO	Date approved by CPM/CBO
						Status/Comments
START OF MOBILIZATION/ROUGH GRADING	7/14/2002					
START OF CONSTRUCTION	8/1/2002					
AQ-51	Provide the District with valid ERC certificates for PM10 for the amount of 29.21 tons per year and for VOC for the amount of 124.2 tons per year from the sources noted in Condition 51.	(At least 30 days prior to the start of construction, the project owner must submit a copy of the required ERC certificates to the CPM and the District.	30 days prior to start of construction	8/2/02	7/26/02	N/A Complete
AQ-52	The project owner shall mitigate, to the extent practical, construction related emission impacts from off-road, diesel fired construction equip. Details of Plans shown in Condition AQ-52.	Submit to the CPM for approval the qualifications of the CMN at least 45 days prior to due date for diesel construction equipment.	45 days prior to rough grading	11/30/01	8/27/01	9/27/01 Complete
AQ-52	The project owner shall mitigate, to the extent practical, construction related emission impacts from off-road, diesel fired construction equip. Details of Plans shown in Condition AQ-52.	Submit Construction Equipment Mitigation Plan 30 days prior to rough grading	30 days prior to rough grading	12/15/01	9/7/01	9/27/01 Complete
AQ-52	The project owner shall mitigate, to the extent practical, construction related emission impacts from off-road, diesel fired construction equip. Details of Plans shown in Condition AQ-52.	Submit Report of Change to the CPM no later than 10 working days after use of equipment on site.	10 days after use of equipment on site			
AQ-53	The heat input to the fire pump diesel engine shall not exceed 21.1 MM BTU totaled over any consecutive twelve month period.	As part of the monthly Air Quality Reports, indicate the date of any violation of this Condition Including quantitative information on the severity of the violation.	Monthly Air Quality Reports			
AQ-54	The total hours of operation of the emergency generator shall not exceed 200 hours per calendar year, plus an additional 100 hours per calendar year for the purposes of maintenance and testing.	As part of the monthly Air Quality Reports, indicate the date of any violation of this Condition Including quantitative information on the severity of the violation.	Monthly Air Quality Reports			
AQ-55	Install an oxidation catalyst to control VOC emissions.	As part of its final design plans, specifications, and drawings, submit to the District and the CPM for review and approval the final selection and design details of combustion equipment, including emission systems.	Submittal of final design plans			
Public Health-1	Perform a visual inspection of the cooling tower drift eliminators once per calendar year. Prior to initial operation of the project, have the cooling tower vendor's field representative inspect the cooling tower drift eliminator and certify that the installation was performed in a satisfactory manner.	Prior to initial operation of the project, have the cooling tower vendor's field representative inspect the cooling tower drift eliminator and certify that the installation was performed in a satisfactory manner.	Prior to initial operation			
Public Health-1	Perform a visual inspection of the cooling tower drift eliminators once per calendar year. Prior to initial operation of the project, have the cooling tower vendor's field representative inspect the cooling tower drift eliminator and certify that the installation was performed in a satisfactory manner.	The project owner shall include the results of the annual inspection of the cooling tower drift eliminators and a description of any repairs performed in the next required compliance report.	Annual Compliance Report			

METCALF ENERGY CENTER COMPLIANCE MATRIX							
START OF MOBILIZATION/ROUGH GRADING		1/14/2002					
START OF CONSTRUCTION		9/1/2002					
Condition No.		Requirements & Task Summary				Status/Comments	
Action required		Event		Required Submittal Date		Date approved by CP/M/CIO	
WORKER SAFETY 1	Project Construction Safety and Health Program, containing the following: A Construction Injury and Illness Prevention Program, A Construction Fire Protection and Prevention Plan, A Personal Protective Equipment Program.	Submit to the CPM a copy of the Project Construction Safety and Health Program and the Personal Protective Equipment Program, with a copy of the cover letter transmittal of the programs to Cal/OSHA.		30 days prior to start of construction		8/2/02	9/27/01(Bechtel) 2/1/02(Bechtel)
WORKER SAFETY 1	Project Construction Safety and Health Program, containing the following: A Construction Injury and Illness Prevention Program, A Construction Fire Protection and Prevention Plan, A Personal Protective Equipment Program.	Submit to the CPM a letter from the San Jose Fire Department stating that they have reviewed and accepted the Construction Fire Protection and Prevention Plan.		30 days prior to start of construction		8/2/02	7/31/01 2/1/02 Response to Fire Dep't. comments submitted 4/9/02.
WORKER SAFETY 2	Project Operation Safety and Health Plan containing the following: Operation Injury and Illness Prevention Plan, Emergency Action Plan, Operation Fire Protection Plan, Personal Protective Equipment Program.	The Plan shall be submitted to the Cal/OSHA Consultation Service, for review and comment concerning compliance of the program with all applicable Safety Orders		Start of Operation			
WORKER SAFETY 2	Project Operation Safety and Health Plan containing the following: Operation Injury and Illness Prevention Plan, Emergency Action Plan, Operation Fire Protection Plan, Personal Protective Equipment Program.	Submit to the CPM a copy of the final version of the Project Operation Safety & Health Program with a copy of the cover letter to Cal/OSHA's Consultation Service, and San Jose Fire Department comments stating that they have reviewed and accepted the specified elements of the Plan.		30 days prior to start of operation			
WORKER SAFETY 3	Reach an agreement with the San Jose Fire Dept on the amount of fees and timing of payment they will provide to cover project-specific impacts associated with worker safety and fire protection.	Provide the CPM with a copy of an agreement with the City of San Jose Fire Department or shall provide an interim plan to address impacts until a permanent agreement can be reached.		60 days prior to ground disturbance		11/15/01	7/20/01 2/1/02 Complete
WORKER SAFETY 3	Reach an agreement with the San Jose Fire Dept on the amount of fees and timing of payment they will provide to cover project-specific impacts associated with worker safety and fire protection.	If an agreement cannot be reached at least 60 days prior to construction, the project owner will inform the CPM and propose a plan to mitigate impacts on fire services.		60 days prior to ground disturbance		11/15/01	7/20/01 2/1/02 Complete
TLSN-1	The project owner shall construct the proposed transmission line according to the requirements of Section 2700 through 2874 of the California Code of Regulations and PG&E's EMF-reduction measures.	Identify and correct any complaints of interference with radio and TV signals from operation of line and facilities.		Submit to the CPM a letter affirming that the transmission line will be constructed according to the requirements.		30 days prior to start of construction of Transmission Line	Annual Compliance Report
TLSN-2		All reports of line-related complaints shall be summarized and included for 5 years in the Annual Compliance Report to the CPM		File copies of the pre-and post energization measurements with CPM. These measurements shall be completed within 6 months of the start of the operations.			
TLSN-3		Engage a qualified consultant to measure the strengths of the line electric and magnetic fields in the project owner's 240-foot section before and after the 230 kV line is energized.		60 days after completion of measurements			

METCALF ENERGY CENTER - COMPLIANCE MATRIX						
Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM/CBO	Date approved by CPM/CBO
START OF MOBILIZATION/ROUGH GRADING	1/14/2002					
START OF CONSTRUCTION	9/1/2002					
TLSN-4	Ensure that the transmission line right-of-way is kept free of combustible material.	Provide a summary of inspection results and any fire prevention activities carried out along the ROW in the annual compliance report.	Annual Compliance Report			
HAZ-5	Ensure the grounding of any ungrounded permanent metallic objects within the right-of-way of the overhead section. Do not use any hazardous material in reportable quantities, not listed in Attachment 1 or in greater quantities or strengths than those identified unless approved in advance by Santa Clara County and the CPM.	Transmit to the CPM a letter confirming compliance with this Condition	30 days prior to energization of transmission line			
HAZ-1	Provide a Risk Management Plan to Santa Clara County and the CPM for review at the time the plans are first submitted to the EPA.	Provide to the CPM and Santa Clara County, in the Annual Compliance Report, a list of hazardous materials contained at the facility in reportable quantities.	Annual Compliance Report			
HAZ-2	Provide a Risk Management Plan to Santa Clara County and the CPM for review at the time the plans are first submitted to the EPA.	Provide a Risk Management Plan to Santa Clara County and the CPM for review at the time the plans are first submitted to the U.S. EPA.	60 days prior to delivery of Aqueous Ammonia			
HAZ-2	Provide a Risk Management Plan to Santa Clara County and the CPM for review at the time the plans are first submitted to the EPA.	Include all recommendations of Santa Clara County and the CPM in the final document. At least 60 days prior to the delivery of aqueous ammonia to the facility, provide the final approved plans listed above to the CPM.	60 days prior to delivery of Aqueous Ammonia			
HAZ-3	Develop and implement a safety management plan for delivery of ammonia.	Provide a safety management plan as described above to the CPM for review and approval.	60 days prior to delivery of Aqueous Ammonia			
HAZ-4	The aqueous ammonia storage facility shall be designed to either the ASME Pressure Vessel Code and ANSI K61.6 or to API 620.	Submit final design drawings and specifications for the ammonia storage tank and secondary containment basin to the County of Santa Clara and the City of San Jose for review and approval, and to the CPM for review and approval.	60 days prior to delivery of Aqueous Ammonia			
HAZ-5	Provide a covered secondary containment basin to passively contain any spill during the delivery of aqueous ammonia to the storage facility.	Provide detailed design drawings and specifications for the secondary containment basin to the County of Santa Clara and the City of San Jose for review and comment, and to the CPM for review and approval.	60 days prior to construction of ammonia secondary containment			
HAZ-6	The project owner shall require that the gas pipeline undergo a complete design review and detailed inspection every 30 years and each 5 years thereafter.	Provide a detailed plan to accomplish a full and comprehensive pipeline design review in the future to the CPM for review and approval.	30 days prior to initial gas flow in pipeline			
HAZ-7	Prepare and implement a pipeline maintenance plan.	Provide a detailed plan to accomplish a full and comprehensive pipeline inspection in the event of an earthquake to the CPM for review and approval.	30 days prior to initial gas flow in pipeline			

START OF MOBILIZATION/ROUGH GRADING							START OF CONSTRUCTION								
Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM/CBO	Date approved by CPM/CBO	Status/Comments	Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM/CBO	Date approved by CPM/CBO	Status/Comments
HAZ-8	The project owner shall direct all vendors delivering any hazardous material to the site to use only the route approved by the CPM.	At least sixty (60) days prior to receipt of any hazardous materials on site, the project owner shall submit copies of the required transportation route limitation to the County of Santa Clara and City of San Jose for review and comment, and to the CPM for review and approval.	Prior to initial gas flow in pipeline	60 days prior to delivery of hazardous materials				HAZ-9	The natural gas pipeline shall be designed to meet CPUC General Order 112-D and 58 A standards, or any successor standards, and will be designed to meet Class III services.	Provide copies of the facility design drawings showing the location of the sulfuric acid storage tank and the route for transport.	Prior to initial gas flow in pipeline	60 days prior to delivery of Sulfuric Acid			
HAZ-10	The project owner shall direct all vendors delivering fuels or lubricants are permanently or temporarily stored within 100 feet of the sulfuric acid tank.	Submit copies of the notification letter to supply vendors indicating the transport vehicle specifications to the CPM for review and approval.	Prior to initial gas flow in pipeline	60 days prior to receipt of aqueous ammonia on site				HAZ-11	The project owner shall direct all vendors delivering aqueous ammonia to the site to use only transport vehicles which meet or exceed the specifications of the DOT MC-307 tanker trucks.	Submit final design drawings and specifications for all hazardous material storage areas and equipment to Santa Clara County and the City of San Jose for review and comment, and to the CPM for review and approval.	Prior to initial gas flow in pipeline	60 days prior to delivery of Hazardous Materials			
HAZ-12	Design, construct, and operate the project in conformance with all applicable laws, ordinances, regulations, and standards pertaining to the transport, storage, and handling of hazardous materials.	Obtain a Hazardous Waste Generator Identification Number from the Department of Toxic Substances Control prior to generating any hazardous waste.	Keep its copy of the identification number on file at the project site and notify the CPM via the monthly compliance report of its receipt.	Notify via Monthly Compliance Report	12/14/02	12/14/02	N/A	WASTE-1	The project owner shall obtain a Hazardous Waste Generator Identification Number from the Department of Toxic Substances Control prior to generating any hazardous waste. (Operation).	Keep copies of the ID number and permit on file and notify the CPM via the monthly compliance report of their receipt - (operation)	Notify via Monthly Compliance Report	12/14/02	12/14/02	N/A	Complete
WASTE-2	Upon becoming aware of any impending waste management-related enforcement action, notify the CPM of any such enforcement action.	Prepare and submit to the CPM a waste management plan for all wastes generated during construction and operation of the facility.	Notify the CPM in writing within 10 days of becoming aware of an impending enforcement action.	Within 10 days of becoming aware of an impending enforcement action.				WASTE-3	Prepare and submit to the CPM a waste management plan for all wastes generated during construction and operation of the facility.	Submit the construction waste management plan to the CPM for review.	60 days prior to start of construction	7/3/02	6/12/01	7/27/01	Complete
WASTE-3	Prepare and submit to the CPM a waste management plan for all wastes generated during construction and operation of the facility.	Submit any required revisions within 30 days of notification by the CPM (or mutually agreed upon date).	Revise within 30 days of notification by CPM												

METCALF ENERGY CENTER - COMPLIANCE MATRIX						
Condition No.	Requirements & Task Summary	Action required	Event	Revised Submittal Date	Date submitted to CPM/CBO	Date approved by CPM/CEO
START OF MOBILIZATION/ROUGH GRADING	1/14/2002					
START OF CONSTRUCTION	5/1/2002					
WASTE-3	Prepare and submit to the CPM a waste management plan for all wastes generated during construction and operation of the facility.	The operation waste management plan shall be submitted no less than 60 days prior to the start of project operation.	60 days prior to start of operation			
WASTE-3	Prepare and submit to the CPM a waste management plan for all wastes generated during construction and operation of the facility.	The project owner shall submit any required revisions within 30 days of notification by the CPM (or mutually agreed upon date).	Revise within 30 days of notification by CPM			
WASTE-3	Prepare and submit to the CPM a waste management plan for all wastes generated during construction and operation of the facility.	In the Annual Compliance Reports, document the actual waste management methods used during the year compared to planned management methods.	Annual Compliance Report			
WASTE-4	Have a registered PE available for consultation during soil excavation and grading activities.	Submit the qualifications and experience of the professional to the CPM for approval.	30 days prior to ground disturbing activity	12/15/01	8/16/01	Complete
WASTE-5	If potentially contaminated soil is unearthed during excavation the environmental professional shall inspect the site.	Notify the CPM in writing within 5 days of any reports filed by the environmental professional.	Within 5 days of filing reports			
WASTE-5	If potentially contaminated soil is unearthed during excavation the environmental professional shall inspect the site.	If significant remediation may be required, contact representatives of the Santa Clara County and Dept of Toxic Substances Control. Notify the CPM in writing within 5 days of any reports filed.	Within 5 days of filing reports			
WASTE-6	Obtain a Hazardous Material Clearance Form from the Santa Clara County Hazardous Materials Compliance Area Division.	Provide an approved copy of the Hazardous Material Clearance Form to the CPM.	Prior to the start of construction	3/20/02	3/20/02	Complete
WASTE-7	The project owner shall perform additional limited investigations to fully characterize the site.	Prior to the start of construction, submit analytical results of the additional sampling to the CPM as a ESA Addendum.	Prior to the start of construction	2/21/02	2/21/02	N/A
WASTE-8	All site debris shall be removed from the site after owner has control of the site.	Notify the CPM in writing within ten days of removal of site debris.	Within 10 days after removal of site debris			
LAND-1	At such time as a connection to a trail network can be made, install and maintain the portion of the planned trail that would cross the site.	In the Monthly Compliance Reports provide updates on trail developments in the area around the site.	Monthly Compliance Report	9/10/01	9/10/01	10/20/01
LAND-1	At such time as a connection to a trail network can be made, install and maintain the portion of the planned trail that would cross the site.	Submit to the City of San Jose Departments of Planning and Public Works for review of the trail design and maintenance plan.	Start of Construction of Trail			
LAND-1	At such time as a connection to a trail network can be made, install and maintain the portion of the planned trail that would cross the site.	Prior to the start of a trail that the MEC trail could be connected to, submit designs and the maintenance plan to the CPM.	180 days prior to start of construction or trail			
LAND-1	At such time as a connection to a trail network can be made, install and maintain the portion of the planned trail that would cross the site.	Notify the CPM that the trail segment has been completed and is ready for inspection.	Within 7 days after completion of trail segment			
LAND-1	At such time as a connection to a trail network can be made, install and maintain the portion of the planned trail that would cross the site.	In the Annual Compliance Reports provide updates on trail developments in the area around the site.	Annual Compliance Report			

## METCALF ENERGY CENTER - COMPLIANCE MATRIX

Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM/CBO	Date approved by CPM/CEO	Status/Comments
START OF MOBILIZATION/ROUGH GRADING	11/4/2002						
START OF CONSTRUCTION	9/1/2002						
LAND-2	Landscape the parking area consistent with the "Orchard Planting" Guidelines of the North Coyote Valley Campus Industrial Area Master Development Plan.	Submit to the City of San Jose for review and comment and to the CPM for approval a revised landscape plan.	30 days prior to start of construction	8/2/02	8/7/02		Submitted
LAND-2	The project owner shall landscape the parking area consistent with the "Orchard Planting" Guidelines of the North Coyote Valley Campus Industrial Area Master Development Plan.	Notify the CPM that the work has been completed and is ready for inspection.	7 days after completion of landscaping				
LAND-3	The project owner shall design and construct the project to satisfy the setback requirements	Submit the final design plans to the CPM for approval.	60 days prior to start of construction	7/30/02	11/14/01 3/12/02	12/10/2001 3/28/02	Complete
LAND-3	The project owner shall design and construct the project to satisfy the setback requirements	Notify the CPM that the boundaries are ready for inspection.	Prior to construction of specified facilities and structures				
LAND-3	The project owner shall design and construct the project to satisfy the setback requirements	Submit the final design plans to the San Jose review and comment.	60 days prior to start of construction	7/30/02	10/22/02 (cooling tower)	10/23/02 (cooling tower)	Complete for cooling tower foundation only.
LAND-3	The project owner shall design and construct the project to satisfy the setback requirements	Notify the CPM that the facilities and structures are completed and are ready for inspection.	7 days after completion of specified facilities and structures				
LAND-4	Ensure that any project directional signs, identity signs, and gatehouses comply with the "Entry Identification" guidelines.	Submit to the CPM for approval a site plan that demonstrates that the project complies with the "Entry Identification" Guidelines.	90 days prior to commercial operation				
LAND-4	Ensure that any project directional signs, identity signs, and gatehouses comply with the "Entry Identification" guidelines.	Submit to the City of San Jose for review and comment a site plan.	90 days prior to commercial operation				
LAND-4	Ensure that any project directional signs, identity signs, and gatehouses comply with the "Entry Identification" guidelines.	Notify the CPM that these requirements have been satisfied and are ready for inspection.	Commercial Operation				
LAND-5	Acquire from the property owners (Passantino) immediately south of the MEC site a restrictive covenant agreement.	Submit to the CPM a recorded copy of the Agreement.	90 days prior to start of construction	6/3/02	6/12/01	9/14/01	Complete
LAND-5	Acquire from the property owners (Passantino) immediately south of the MEC site a restrictive covenant agreement.	Submit a landscape plan to the CPM for review and approval and the City of San Jose for review and comment.	Within sixty (60) days of sale of the Passantino property				
LAND-5	Immediately south of the MEC site a restrictive covenant agreement.	Notify the CPM that the landscaping has been completed and is ready for inspection.	7 days after completion of landscaping				
LAND-6	Ensure the protection of soil while using agricultural land as a construction laydown and parking area.	Notify the CPM that the protective measures stated above will be applied prior to the delivery of any construction materials.	30 days prior to delivery of construction materials				
LAND-6	Ensure the protection of soil while using agricultural land as a construction laydown and parking area.	Submit photographic evidence of the application.	7 days after completion of protective measures				
LAND-6	Ensure the protection of soil while using agricultural land as a construction laydown and parking area.	Notify the CPM that the agricultural field used as the laydown area has been tilled and shall submit photographs of the tilled field.	30 days prior to commercial operation				

## METCALF ENERGY CENTER COMPLIANCE MATRIX

Condition No.	Requirements & Task Summary	Action required	Event	Required Date	Submittal Date to CPM/CBO	Date approved by CPM/CBO	Status/ Comments
START OF MOBILIZATION/ROUGH GRADING	1/14/2002						
START OF CONSTRUCTION	9/1/2002						
LAND-7	Ensure that any additional construction laydown areas needed along all pipeline routes are located within existing paved or gravel areas.	Submit a detailed map showing the location of any planned laydown areas along the pipeline routes and photographs of the areas.	60 days prior to construction of pipelines				
LAND-8	Obtain all necessary licenses and easement rights from Santa Clara County to route the natural gas supply pipeline through the Coyote Creek Parkway.	Submit the plan to the Santa Clara County Parks and Recreation Department for review and obtain licenses and easements.	Prior to submittal to CPM				Option agreement signed 6/4/02. Will exercise option 45 days prior to construction of gas pipeline.
LAND-8	Obtain all necessary licenses and easement rights from Santa Clara County to route the natural gas supply pipeline through the Coyote Creek Parkway.	Submit to the CPM a copy of all licenses and easements secured from Santa Clara County and submit to the CPM a plan that describes how construction activities will be timed to avoid permitted park events.	30 days prior to construction of gas pipeline				
LAND-8	Obtain all necessary licenses and easement rights from Santa Clara County to route the natural gas supply pipeline through the Coyote Creek Parkway.	Submit to the CPM an update of planned construction dates for the following week and a schedule of planned park events.	Weekly gas pipeline report	4/15/03			
LAND-9	Route the water supply and wastewater discharge pipelines through open agricultural areas to avoid the direct loss of orchard trees.	Submit to the CPM for review and approval a site plan that shows the precise alignment of the pipelines in relation to existing orchard trees.	60 days prior to construction of water supply and waste water pipelines				
LAND-9	Route the water supply and wastewater discharge pipelines through open agricultural areas to avoid the direct loss of orchard trees.	Notify the CPM that stakes have been installed and the route is ready for inspection.	7 days prior to ground disturbing activities related to pipeline construction				
LAND-10	During pipeline construction, stockpiles excavated topsoil separate from subsoil in agricultural areas.	Submit a description of the procedure to minimize alteration of original soil stratigraphy.	30 days prior to ground disturbing activities related to pipeline construction				
LAND-10	During pipeline construction, stockpiles excavated topsoil separate from subsoil in agricultural areas.	Notify the CPM of the schedule for trenching.	7 days prior to trenching for pipeline				
LAND-10	During pipeline construction, stockpiles excavated topsoil separate from subsoil in agricultural areas.	Submit photographs to the CPM that demonstrates that the topsoil has been kept separate from the subsoil.	7 days after start of trenching for pipeline				
LAND-11	The heat recovery steam generator stacks shall be limited to 145 feet above finished grade.	Notify the CPM of the schedule for backfilling.	7 days prior to backfilling trenches				
TRANS-1	Comply with Caltrans and Santa Clara County limitation on vehicle sizes and weights.	Submit the final design specifications to the CPM for review and approval.	60 days prior to start of construction	7/30/02	9/2/2001	10/17/01	Complete
TRANS-2	Comply with Caltrans and County limitations for encroachment into public rights-of-way and shall obtain necessary encroachment permits.	Provide the number of any oversize and overweight transportation permits received during that reporting period.	Monthly Compliance Report				In progress
TRANS-3	Ensure that all federal and state regulations for the transport of hazardous materials are observed.	Submit copies of any encroachment permits received during that reporting period in the Monthly Compliance Report.	Monthly Compliance Report				Caltrans encroachment permit for gas pipeline submitted in May Report.
		Copies of all permits and licenses acquired concerning the transport of hazardous substances.	Monthly Compliance Report				

METCALF ENERGY CENTER COMPLIANCE MATRIX						
START OF MOBILIZATION/ROUGH GRADING		START OF CONSTRUCTION				
Condition No.	Requirements & Task Summary		Action required	Event	Required Submittal Date	Date submitted to CPM/CBO
TRANS-4	The project owner shall enter into a Crossing Agreement with UPRR.	If the permanent crossing warning equipment is not in place, submit a traffic plan for the crossing to UPRR for review.	Submit the executed Crossing Agreement to the CPM for approval.	60 days prior to site preparation	11/15/01	8/16/01
TRANS-4	The project owner shall enter into a Crossing Agreement with UPRR.	Install railroad grade crossing warning equipment at the RR crossing for Blanchard Road.	Inform the CPM when the final grade crossing warning equipment is ready for inspection.	60 days prior to site preparation	11/15/01	8/16/01
TRANS-4	Consult with Santa Clara Co., San Jose, and Caltrans & prepare a Const. Traffic Control Plan and Implementation program.	Provide to Santa Clara County, City of San Jose and Caltrans, and to the CPM, copy of construction traffic control plan and implementation program.	Provide to Santa Clara County, City of San Jose and Caltrans, and to the CPM, copy of construction traffic control plan and implementation program.	Installation of final grade crossing equipment	3/4/02	3/4/02
TRANS-5	Repair roadways to original or as near original condition as possible. Refer to TRANS-6 for further details	Photograph, videotape, or digitally record Monterey Rd. between Metcalf Rd. and Blanchard Rd. Provide the CPM, Santa Clara County and Caltrans with a copy of these Images.	Prior to start of site preparation	30 days prior to start of site preparation	10/2/01	10/2/01
TRANS-6	Repair roadways to original or as near original condition as possible. Refer to TRANS-6 for further details	Photograph, videotape, or digitally record Monterey Rd. between Metcalf Rd. and Blanchard Rd. Provide the CPM, Santa Clara County and Caltrans with a copy of these Images.	Prior to start of site preparation	Start of ground disturbing activities related to pipeline construction	11/15/01	8/9/01
TRANS-6	Following completion of construction of the power plant and all related facilities, the project owner shall repair roadways to original or as near original condition as possible.	Notify Caltrans about the schedule for project construction.	60 days prior to site preparation		8/13/01	
TRANS-6	Following completion of construction of the power plant and all related facilities, the project owner shall repair roadways to original or as near original condition as possible.	Meet with the CPM, Santa Clara County, the City of San Jose and Caltrans to determine actions necessary for repair of roadways.	30 days after completion of project construction		8/9/01	
TRANS-6	Prepare and submit a parking and staging plan for all phases of project construction.	Submit the parking and staging plan to the City of San Jose and Santa Clara County for review and comment, and to the CPM for approval.	60 days prior to start of site preparation		10/2/01	10/2/01
TRANS-7	Prior to the start of commercial operation of MEC, the project owner shall complete a two-lane secondary access connection.	Contact the City regarding the status of the off-site portion of the Santa Teresa Boulevard connection and inform the CPM.	12 months prior to commercial operation	12/31/03		
TRANS-8	Prior to the start of commercial operation of MEC, the project owner shall complete a two-lane secondary access connection.	Notify residents and business entities within one mile of the site of the start of construction and operation of the project.	60 days prior to commercial operation	11/2/04		
NOISE-1	Notify all residents and business entities within one mile of the site of the start of construction and operation of the project.	Notify residents and establish/post telephone number	15 days prior to start of rough grading	12/30/01	10/3/01	N/A
NOISE-1	Notify all residents and business entities within one mile of the site of the start of construction and operation of the project.	A statement signed by the project manager attesting that the above notification has been performed.	Monthly Construction Report Following the Start of Rough Grading	2/14/02	2/14/02	N/A

METCAFE ENERGY CENTER COMPLIANCE MATRIX						
Condition No.	Requirements & Task Summary	Action required	Event	Revised Date	Date submitted to CPM/CBO	Date approved by CPM/CBO
START OF MOBILIZATION/ROUGH GRADING	1/14/2002					
START OF CONSTRUCTION	9/1/2002					
NOISE-1	Notify all residents and business entities within one mile of the site of the start of construction and operation of the project.	A statement signed attesting that notification was send to all residents within a 1-mile radius of the project.	15 days prior to the commencement of steam blow activity			
NOISE-1	Notify all residents and business entities within one miles of the site of the start of construction and operation of the project.	Transmit a statement signed by the project manager attesting that a notification was send to all residents within a one-mile radius of the project.	Monthly Construction Report Following the Steam Blow activity			
NOISE-2	Throughout the construction and operation, document, investigate, evaluate and attempt to resolve all project related noise complaints.	File a copy of the Noise Complaint Resolution Form with City of San Jose and with the CPM documenting the resolution of the complaint.	30 days after receiving a noise complaint			
NOISE-3	Submit to the CPM for review a Noise Control Program.	Submit to the CPM the above referenced program.	30 days prior to Rough Grading			
NOISE-4	If a traditional high-pressure steam blow process is employed, equip steam blow piping with a temporary silencer.	Submit to the CPM drawings describing the temporary steam blow silencer, and a description of the steam blow schedule.	15 days prior to first Steam Blow			
NOISE-5	Conduct a 25-hour Community Noise Survey when first achieving an output of 80 percent of rated capacity.	Submit a summary report of the survey to City of San Jose and the CPM.	Within 30 days after completing survey			
NOISE-5	Conduct a 25-hour Community Noise Survey when first achieving an output of 80 percent of rated capacity.	Submit to the CPM a summary report of a new noise survey.	Within 30 days of completion of installation of these measures			
NOISE-6	The project owner shall conduct an occupational noise survey to identify the noise hazardous areas in the facility.	The survey shall be conducted within thirty (30) days after the facility is operating at an output of 80% of rated capacity or greater.	Thirty days after the facility is operating at an output of 80%			
NOISE-6	The project owner shall conduct an occupational noise survey to identify the noise hazardous areas in the facility.	Submit the noise survey report to the CPM. The project owner shall also submit the report to OSHA upon request.	Within 30 days after completing the survey			
NOISE-7	Construction shall be restricted to the hours of: 7 a.m. to 7 p.m. on weekdays and from 8 a.m. to 6 p.m. on weekends and holidays.	Transmit a statement certifying that the above construction of the project.	First Monthly Compliance Report	11/15/02	N/A	Complete
VIS-1	Treat the project structures, buildings, and tanks visible to the public in a non-reflective color.	Submit proposed plan to the CPM for review and approval.	60 days prior to ordering first equipment that is color treated	8/1/02	8/1/02	Submitted for cooling tower color only. Comments received. Will coordinate re-submittal with VIS-9 submittal.
VIS-1	Treat the project structures, buildings, and tanks visible to the public in a non-reflective color.	If the CPM notifies the project owner that any revisions of the plan are needed, shall submit to the CPM a revised plan.	Within 30 days of receiving notification			Comments received. Will coordinate re-submittal with VIS-9 submittal.
VIS-1	Treat the project structures, buildings, and tanks visible to the public in a non-reflective color.	Notify the CPM that all structures treated during manufacture and all structures treated in the field are ready for inspection.	Not less than thirty (30) days prior to the start of commercial operation			
VIS-1	Treat the project structures, buildings, and tanks visible to the public in a non-reflective color.	The project owner shall provide a status report regarding treatment maintenance in the Annual Compliance Report.	Annual Compliance Report			
VIS-2	Any fencing for the project shall be non-reflective.	Submit the specifications to the CPM for review and approval.	At least 30 days prior to ordering the non-reflective fencing			

METCALF ENERGY CENTER COMPLIANCE MATRIX						
Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM/CBO	Date approved by CPM/CEO
						Status/Comments
VIS-2	Any fencing for the project shall be non-reflective.	If the CPM notifies the project owner that revisions of the submittal are needed the owner shall prepare and submit a revised submittal.	Within 30 days of receiving notification			
VIS-2	Any fencing for the project shall be non-reflective.	Notify the CPM that the fencing is ready for inspection.	Within 7 days after completing installation of the fencing			
VIS-3	Design and install all lighting such that light bulbs and reflectors are not visible from public viewing areas.	Notify the CPM that the lighting is ready for inspection.	Within seven (7) days of completing exterior lighting installation			
VIS-3	Design and install all lighting such that light bulbs and reflectors are not visible from public viewing areas.	Provide the lighting plan to the CPM for review and approval and to the City of San Jose for review and comment.	Ninety (90) days before ordering the exterior lighting.			
VIS-3	Design and install all lighting such that light bulbs and reflectors are not visible from public viewing areas.	If the CPM notifies the project owner that any revisions of the plan are needed, shall submit to the CPM a revised plan.	Within 30 days of receiving notification			
VIS-4	Restore any and all areas that are disturbed during the construction or operation of any portions of the proposed underground utilities.	If the CPM notifies the project owner that revisions of the submittal are needed, shall prepare and submit to the CPM a revised submittal.	Within 30 days of receiving notification			
VIS-4	Restore any and all areas that are disturbed during the construction or operation of any portions of the proposed underground utilities.	Notify the CPM after completing the surface restoration that it is ready for inspection.	Within seven days after completing the surface restoration			
VIS-4	Restore any and all areas that are disturbed during the construction or operation of any portions of the proposed underground utilities.	Submit the plan to the CPM for review and approval and to the City of San Jose or Santa Clara County for review and comment.	At least sixty days prior to beginning implementation of the surface restoration			
VIS-5	Implement the installation of temporary aesthetic screening along the south and east sides and any of the eastern portion of the north side of the construction laydown area. Install long-term aesthetic screening along the west side of Monterey Road.	Submit any required revisions within 30 days of notification by the CPM.	Within 30 days of receiving notification			
VIS-5	Implement the installation of temporary aesthetic screening along the south and east sides and any of the eastern portion of the north side of the construction laydown area. Install long-term aesthetic screening along the west side of Monterey Road.	The temporary and long-term aesthetic screening installations are ready for inspection.	Within seven days after implementing the proposed plan			
VIS-5	Immediately upon completion of construction of the project, the temporary aesthetic screening shall be removed and the construction laydown area shall be revegetated and restored to its original condition.	Submit proposed plans to the City of San Jose for review and comment and CPM for review and approval.	At least ninety (90) days before intended removal of the temporary aesthetic screen			
VIS-5	Immediately upon completion of construction of the project, the temporary aesthetic screening shall be removed and the construction laydown area shall be revegetated and restored to its original condition.	Submit any required revisions within 30 days of notification by the CPM.	Within 30 days of notification			

METCALF ENERGY CENTER - COMPLIANCE MATRIX						
Condition No.	Requirements & Task Summary	Action required	Event	Required Date	Date submitted to CPM/CBO	Date approved by CPM/CBO
VIS-5	Immediately upon completion of construction or the project, the temporary aesthetic screening shall be removed and the construction laydown area shall be revegetated and restored to its original condition.	Notify the CPM that the temporary aesthetic screening removal is ready for inspection.	Within seven days after implementing the proposed plan			
VIS-5	Implement the installation of temporary aesthetic screening along the south and east sides and any of the eastern portion of the north side of the construction laydown area. Install long-term aesthetic screening along the west side of Monterey Road.	Submit the proposed temporary and long-term aesthetic screening plans to the City of San Jose for review and comment.	Ninety (90) days prior to the start of use of the construction laydown area	7/27/01	7/27/01	N/A (City of San Jose)
VIS-5	Implement the installation of temporary aesthetic screening along the south and east sides and any of the eastern portion of the north side of the construction laydown area. Install long-term aesthetic screening along the west side of Monterey Road.	Submit the proposed temporary and long-term aesthetic screening plans to the CPM for review and approval.	Ninety (90) days prior to the start of use of the construction laydown area	7/27/01	7/27/01, 12/18/01	2/15/02 (Aesthetic screen)
VIS-6	The project owner shall comply with the requirements of Policy 12 of the General Development Plan Standards of the Master Development Plan and Guidelines for the North Coyote Valley Campus Industrial Area re: screening of truck loading docks and storage and service areas..	Submit the proposed temporary and long-term aesthetic screening plans to the City of San Jose for review and comment and the CPM for review and approval.	At least sixty (60) days prior to installing the screening			
VIS-6	The project owner shall comply with the requirements of Policy 12 of the General Development Plan Standards of the Master Development Plan and Guidelines for the North Coyote Valley Campus Industrial Area re: screening of truck loading docks and storage and service areas..	Submit any required revisions	Within 30 days of notification			
VIS-6	The project owner shall comply with the requirements of Policy 12 of the General Development Plan Standards of the Master Development Plan and Guidelines for the North Coyote Valley Campus Industrial Area re: screening of truck loading docks and storage and service areas..	The project owner shall notify the CPM when ready for inspection	Within seven days after completing installation of the screening			
VIS-7	Install aesthetic landscape screening along a portion of Coyote Ranch Road.	Submit the proposed aesthetic landscape screening plan to the City of San Jose and County of Santa Clara Parks and Recreation Department for review and comment.	90 days prior to start of construction	6/3/02	6/12/01	Submitted / In progress. Working with County,
VIS-7	Install aesthetic landscape screening along a portion of Coyote Ranch Road.	Submit the proposed aesthetic landscape screening plan to the CPM for review and approval.	90 days prior to start of construction	6/3/02	6/12/01	Submitted / In progress. Working with County,
VIS-7	Install aesthetic landscape screening along a portion of Coyote Ranch Road.	Submit any required revisions by the CPM.	Within thirty (30) days of notification			

METCALF ENERGY CENTER COMPLIANCE MATRIX						
Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM/CBO	Date approved by CPM/CBO
START OF MOBILIZATION/ROUGH GRADING	1/14/2002					
START OF CONSTRUCTION	9/11/2002					
VIS-7	Install aesthetic landscape screening along a portion of Coyote Ranch Road.	Notify the CPM in writing that the aesthetic landscape screening installation is ready for inspection.	Within seven (7) days after completing the implementation of this proposed plan			
VIS-8	The gas metering station east of Highway 101 shall be designed in a manner that helps visually screen it from views from Highway 101 and integrate it with its surroundings.	Submit detailed design specifications for the gas metering station to the County of Santa Clara Parks and Recreation Department for review and comment.	At least sixty (60) days before the beginning of construction of the gas metering station			
VIS-8	The gas metering station east of Highway 101 shall be designed in a manner that helps visually screen it from views from Highway 101 and integrate it with its surroundings.	Submit detailed design specifications for the gas metering station to the CPM for review and approval.	At least sixty (60) days before the beginning of construction of the gas metering station			
VIS-8	The gas metering station east of Highway 101 shall be designed in a manner that helps visually screen it from views from Highway 101 and integrate it with its surroundings.	Submit any required revisions.	Required revision within 30 days of notification by CPM.			
VIS-8	The gas metering station east of Highway 101 shall be designed in a manner that helps visually screen it from views from Highway 101 and integrate it with its surroundings.	Notify the CPM that the aesthetic treatment and implementation of the proposed plan	Within seven (7) days after implementing the proposed plan			
VIS-9	The power plant shall be designed in a manner that reduces its appearance as an industrial facility and helps visually integrate it with its surroundings.	Submit the proposed architectural design treatment plan to the City of San Jose for review and end comment.	At least sixty (60) days prior to the start of architectural treatment			Complete
VIS-9	The power plant shall be designed in a manner that reduces its appearance as an industrial facility and helps visually integrate it with its surroundings.	Submit the proposed architectural design treatment plan to the CPM for review and approval.	At least sixty (60) days prior to the start of architectural treatment		10/2/02	
VIS-9	The power plant shall be designed in a manner that reduces its appearance as an industrial facility and helps visually integrate it with its surroundings.	Shall submit any required revisions.	Within thirty (30) days of notification by the CPM	11/30/02	11/25/02	Submitted
VIS-10	The power plant shall be designed in a manner that reduces its appearance as an industrial facility and helps visually integrate it with its surroundings.	Notify the CPM in writing that all structures are ready for inspection.	Thirty (30) days prior to the start of commercial operation			
VIS-10	The power plant shall be designed and operated to minimize visible plumes.	Submit the proposed plume abatement plan to the City of San Jose for review and comment.	At least sixty (60) days prior to the start of construction	7/3/02	9/6/01	N/A
VIS-10	The power plant shall be designed and operated to minimize visible plumes.	Submit the proposed plume abatement plan to the CPM for review and approval.	At least sixty (60) days prior to the start of construction	7/3/02	9/5/01	Submitted. CEC comments received.
VIS-10	The power plant shall be designed and operated to minimize visible plumes.	The project owner shall submit any required revisions.	Within 30 days of notification by the CPM.		9/24/2002 11/6/02	Second set of comments received 12/2/02.
VIS-11	Trail development along the Fisher Creek corridor adjacent to the power plant site.	The project owner shall submit to the City of San Jose and the County of Santa Clara Parks and Recreation Department for review and comment railroad tracks a specific plan.	Start of construction of the trail between Blanchard Road and railroad tracks			
VIS-11	Trail development along the Fisher Creek corridor adjacent to the power plant site.	Submit to the CPM for review and approval a specific plan describing its landscape plan.	Start of construction of the trail between Blanchard Road and railroad tracks			

METCALF ENERGY CENTER: COMPLIANCE MATRIX						
Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM/CBO	Status/Comments
VIS-11	Trail development along the Fisher Creek corridor adjacent to the power plant site.	Submit any required revisions.	Within 30 days of notification by the CPM.			
VIS-11	Trail development along the Fisher Creek corridor adjacent to the power plant site.	Notify the CPM, City of San Jose, and County of Santa Clara Parks and Recreation Department that the planting installation is ready for inspection.	7 days after completion of planting installation			
VIS-12	Contact the owners of property along Blanchard Road and develop a plan to screen views of the project from each property if so desired by a property owner.	Provides to the CPM a report on the landscaping/screening plan.	15 days prior to project construction	8/17/02	7/30/02	9/24/02 Complete
VIS-12	Contact the owners of property along Blanchard Road and develop a plan to screen views of the project from each property if so desired by a property owner.	Notify the CPM when any measures are ready for inspection.	Measures are ready for inspection			
CUL-1	Name and statement of qualifications of its designated cultural resource specialist.	Submit name and qualifications.	90 days prior to site preparation	10/16/01	7/26/01	7/27/01 Complete
CUL-1	Name and statement of qualifications of its designated cultural resource specialist.	Confirm in writing to the CPM that the approved designated cultural resource specialist will be available at the start of construction.	[At least] 10 days but no more than 30 days prior to the start of earth disturbing activities	12/15/01	7/26/01	9/25/01 1/22/02 Complete
CUL-1	Name and statement of qualifications of its designated cultural resource specialist.	Obtain CPM approval of the replacement specialist.	10 days prior to termination of Cultural Specialist			
CUL-2	Provide the designated cultural resource specialist and the CPM with maps and drawings showing the footprint of the power plant and all linear facilities.	Provide the designated cultural resource specialist and the CPM with the maps and drawings.	75 days prior to the start of earth disturbing activities	10/31/01	9/20/01	11/1/01 Complete
CUL-3	CRS shall prepare, and the owner shall submit to the CPM for review and written approval, a CRMMP.	Submit the Cultural Resources Monitoring and Mitigation Plan.	60 days prior to project site preparation	* 11/15/01	6/12/01	12/15/01 Complete
CUL-4	WEAT for cultural resources	Submit to the CPM for review and written approval, the proposed WEAT.	60 days prior to the start of construction on the project	11/15/01	9/20/01	12/5/01 Complete
CUL-5	WEAT to all project managers, all construction supervisors, and those workers who operate ground disturbing equipment.	Provide the CPM with documentation that WEAT was administered.	7 days after start of construction	1/21/02	9/29/01	1/29/02 2/10/02 Complete
CUL-5	WEAT to all project managers, all construction supervisors, and those workers who operate ground disturbing equipment.	Provide the CPM with documentation that WEAT was administered.	Monthly Compliance Report			In progress
CUL-6	CRS or monitor shall have the authority to halt or redirect construction if previously unknown cultural resource sites or materials are encountered.	Provide the CPM with a letter confirming CUL-6, 30 days prior to site preparation		12/15/01	7/20/01	8/6/01 Complete
CUL-6	CRS or monitor shall have the authority to halt or redirect construction if previously unknown cultural resource sites or materials are encountered.	For any cultural resource encountered, the project owner shall notify the CPM within 24 hours.	Within 24 hours of cultural resource discovery			
CUL-7	Provides to the designated cultural resource specialist with a current schedule of anticipated project activity in the following month and a map.	Provide the CPM with a copy of each weekly schedule of the construction activities.	10 days prior to site preparation	1/4/02	9/28/01	1/14/02 Complete

METCALF ENERGY CENTER - COMPLIANCE MATRIX						
Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM/CIO	Date approved by CP/MCBO
START OF MOBILIZATION/ROUGH GRADING	11/14/2002					
START OF CONSTRUCTION	9/11/2002					
CUL-7	Provide the designated cultural resource specialist with a current schedule of anticipated project activity in the following month and a map.	Provides the CPM with a copy of each weekly schedule of the construction activities.	Monthly Compliance Report			In progress
CUL-8	CRS/monitor keep a daily log of any resource finds and the progress or status of the resource monitoring, mitigation, preparation, identification, and analytical work being conducted for the project.	Copies of the weekly summary reports shall be submitted to the CPM in the Monthly Compliance Report.	Monthly Compliance Report			In progress
CUL-9	Except in the areas specified in CUL-2(f), the designated cultural resource specialist or delegated monitor(s) shall be present at times the specialist deems appropriate.	Copies of the weekly summary reports prepared by the designated cultural resource specialist regarding project-related cultural resource monitoring.	Monthly Compliance Report			In progress
CUL-10	Obtain ground disturbance or cultural resource excavation permits from Caltrans and/or the U.S. Army Corps of Engineers.	Submit a copy of any permit addressing data recovery excavation.	Monthly Compliance Report			
CUL-10	Obtain ground disturbance or cultural resource excavation permits from Caltrans and/or the U.S. Army Corps of Engineers.	Provide written documentation to the permitting agency of compliance with any mitigation measures.	Completion of mitigation activity			
CUL-11	Ensure that the CRs performs the recovery, etc. of all cultural resource materials encountered and collected.	Maintain in its compliance files, copies of signed contracts or agreements with the museum(s), university(ies), or other appropriate research specialists.	Periodic Audit by the CPM			
CUL-12	Report following completion of data recovery and site mitigation work.	Submit it to the CPM for review and written approval.	7 days after completion of the proposed scope of work,			
CUL-12	Prepare a scope of work for Cultural Resources Report following completion of data recovery and site mitigation work.	Ensure that the designated cultural resources specialist prepares the proposed scope of work.	Completion of Data Recovery per CUL-12			
CUL-13	Prepare a Cultural Resources Report as described in CUL-13. Submit the report to the CPM for review and written approval.	Ensure that the designated cultural resource specialist completes the Cultural Resources Report.	Within 90 days following completion of the data recovery and site mitigation work.			
CUL-13	Prepare a Cultural Resources Report as described in CUL-13.	Submit the Cultural Resources Report to the CPM for review and written approval.	Within seven (7) days after completion of the report			
CUL-14	Submit an original, an original-quality copy, and a computer disc copy, of the CPM-approved Cultural Resource Report to the public repository to receive the recovered data and materials for curation, with copies to the State Historic Preservation Officer (SHPO), the appropriate regional archaeological information center(s), and a person employed by the City of San Jose who is authorized to receive confidential cultural resources information.	Provide to the CPM documentation that the report has been sent to the public repository receiving the recovered data and materials for curation, the SHPO and the appropriate archaeological information center(s), and the City of San Jose, to a person authorized to receive confidential cultural resources information.	Within thirty (30) days after receiving approval of the Cultural Resources Report			
CUL-15	Ensure that all cultural resource materials, maps, and data collected during data recovery and mitigation for the project are delivered to a public repository.	Ensure that all recovered cultural resource materials are delivered for curation. For the life of the project, maintain copies of signed contracts or agreements with the public repository.	Within thirty (30) days after providing the CPM-approved Cultural Resource Report to the entities			

METCALF ENERGY CENTER COMPLIANCE MATRIX						
START OF MOBILIZATION/ROUGH GRADING		9/14/2002				
Condition No.	Requirements & Task Summary		Action required	Event	Retured Submittal Date	Date submitted to CPM/CBO
CUL-16	Consult with Ohlone/Costanoan Native American tribal representatives to develop an agreement(s) for qualified monitor(s).		Provide the CPM with a copy of all finalized agreements for Native American (Ohlone/Costanoan) monitor(s). Reports addressing the results of the presence/absence testing shall be included in the Monthly Compliance Report.	30 days prior to site preparation	12/15/01	8/8/01
CUL-17	Presence/absence testing shall be conducted in the vicinity of the natural gas pipeline route or PG&E metering station.		Provide the CPM with information authored by the CRS identifying the area of initial site mobilization.	7 days prior to site mobilization		8/15/01
CUL-18	Comply with Cul-1, Cul-4 and Cul-5. Comply with Cul-2 and Cul-3 for the entire project. CRS shall examine the area of initial project site mobilization.		Submit the results of the records search and the results of the survey.	90 days prior to start of construction of wells	17/02	10/2/01
CUL-19	If the possible water wells and associated pipelines are to be located anywhere but in an area defined as part of the proposed project than a cultural resource assessment shall be required.		Submit copies of contractor, subcontractor, and vendor solicitations and guidelines stating hiring and procurement requirements and procedures.	60 days prior to site preparation		12/15/01
SOCIO-1	The project owner and its contractors and subcontractors shall recruit employees and procure materials and supplies within the City of San Jose and Santa Clara County.		Notify the CPM the reasons for any planned procurement of materials or hiring outside the local regional area that will occur during the next two months.	Monthly Compliance Report		Complete
SOCIO-1	The project owner and its contractors and subcontractors shall recruit employees and procure materials and supplies within the City of San Jose and Santa Clara County.		Pay the statutory school facility development fee as required at the time of filing.	At Time of Filing		In progress
SOCIO-2	Pay the one-time statutory school facility development fee as required at the time of filing.		Provide proof of payment of the statutory development fee.	Monthly Compliance Report after fees are paid		
BIO-1	Construction site and/or ancillary facilities preparation shall not begin until an approved Designated Biologist is available to be on site.		Submit name, qualifications, address and telephone number of the individual selected.	60 days prior to start of ground disturbance		
BIO-1	Construction site and/or ancillary facilities preparation shall not begin until an approved Designated Biologist is available to be on site.		If the CPM determines the proposed Designated Biologist to be unacceptable, submit another individual's name and qualifications for consideration.	Notification by CPM that proposed Designated Biologist is unacceptable		
BIO-2	The CPM approved Designated Biologist shall perform the following during project construction and operation: see BIO-2 for detailed tasks.		Biologist shall maintain written records of the tasks described.	Monthly Compliances Report		In progress
BIO-2	The CPM approved Designated Biologist shall perform the following during project construction and operation: see BIO-2 for detailed tasks.		Submit record summaries in the Annual Compliance Report	Annual Compliance Report		
BIO-3	Act on the advice of the Designated Biologist to ensure conformance with the Biological Resources Conditions of Certification and shall halt all construction activities, if necessary.		Notify the CPM by telephone of the circumstances and actions being taken to resolve the problem or the non-compliance with a condition.	Within 2 working days of notification of non-compliance		

## METCALF ENERGY CENTER - COMPLIANCE MATRIX

Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM/CBO	Date approved by CPM/CBO	Status/Comments
START OF MOBILIZATION/ROUGH GRADING	1/14/2002						
START OF CONSTRUCTION	8/1/2002						
BIO-4	Submit to the CPM for review and approval a copy of the final BRMIMP and shall implement the measures identified in the plan.	Provide the CPM with the final version of the BRMIMP.	45 days prior to start of ground disturbance	11/30/01	7/23/01	8/30/01	Complete
BIO-4	Submit to the CPM for review and approval a copy of the final BRMIMP and shall implement the measures identified in the plan.	Provide to the CPM for review and approval, a written report identifying which items of the BRMIMP have been completed.	30 days after construction complete				
BIO-5	Develop the riparian corridor planting plan for inclusion into the BRMIMP.	Provide to the CPM for review and approval the riparian restoration plan.	45 days prior to ground disturbance	11/30/01	7/23/01	10/17/01	Complete
BIO-6	Develop WEAT for biological resources.	State in the Monthly Compliance Report the number of persons who have completed the training in the prior month.	Monthly Compliance Report				In progress
BIO-6	Develop WEAT for biological resources.	Provide copies of the WEAT and the name and qualifications of the person(s) administering the program.	60 days prior to start of rough grading	11/15/01	9/20/01	12/6/2001	Complete
BIO-7	Acquire a SAA from CDFG.	Submit to the CPM a copy of the final CDFG Streambed Alteration Agreement.	30 days prior to the start of any streambed alteration disturbances	9/30/02 (outfall)			
BIO-8	Provide a final copy of the U.S. Fish and Wildlife Service Biological Opinion.	Submit to the CPM a copy of the USFWS Biological Opinion.	45 days prior to the start of ground disturbance	11/30/01	7/23/01	7/27/01	Complete
BIO-9	Provide a final copy of the Nationwide No. 7 permit.	Submit to the CPM a copy of the Nationwide No. 7 permit.	30 days prior to the start of any streambed alteration	8/1/02	8/14/02		Submitted
BIO-10	Provide 116 acres of land on Tuleare Hill and 15 acres of land on Coyote Ridge, the name of the entity that will be managing the land in perpetuity, and the endowment funds.	Provide to the CPM for approval, the name of the management entity, written verification that the compensation lands have been purchased and written verification that the appropriate endowment fund has been received.	Within one week of commencing ground disturbance activities	1/2/02	2/26/02		Submitted
BIO-11	Develop a suitable final habitat management and monitoring plan for lands purchased on Tuleare Hill and Coyote Ridge.	Provide the CPM with the final approved version of the management plan. Incorporate into the BRMIMP.	60 days prior to start of ground disturbance	11/15/01	6/25/01	7/9/01	Complete
BIO-12	Incorporate into closure plan measures that address the local biological resources and incorporate into the BRMIMP.	Address all biological resource-related issues associated with facility closure.	12 months prior to facility closure				
BIO-13	Comply with BIO-1, BIO-2, and BIO-10 and complete BIO-6. Examine the area and ensure no special status species are present.	Provide the CPM with the location, date(s), method(s), and results of the pre-examination.	10 days prior to mobilization				
SOIL & WATER-1	Disinfected, tertiary-treated, recycled water will be used at the Metcalf Energy Center for cooling purposes and other appropriate non-potable uses.	Provide CPM with a copy of a valid Recycled Water use permit from the City of San Jose.	Construction complete				
SOIL & WATER-1	Potable water may be used for cooling purposes only in the event that SBWR recycled water service is interrupted.	Provide a record of water consumption for the MEC.	Monthly Compliance Report				In progress
SOIL & WATER-1	Potable water may be used for cooling purposes only in the event that SBWR recycled water service is interrupted.	Provide a record of water consumption for the MEC.	Annual Compliance Report				
SOIL & WATER-1	Provide a firm commitment for its construction water supply.	Submit commitment to CPM.	30 days prior to the start of construction	8/2/02	12/5/01	12/28/01	Complete

METCALF ENERGY CENTER - COMPLIANCE MATRIX						
Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM/CBO	Date approved by CPM/CBO
START OF MOBILIZATION/ROUGH GRADING	9/1/2002					
START OF CONSTRUCTION	9/1/2002					
SOIL & WATER-2	Storm Water Pollution Prevention Plan (SWPPP) for construction.	Submit a copy of the SWPPP to the CPM for review and approval.	30 days prior to start of ground disturbance	12/15/01	8/31/01	10/18/01 Complete for project site
SOIL & WATER-2	Storm Water Pollution Prevention Plan (SWPPP) for construction.	Approval of the plan by the CPM must be received prior to the initiation of any clearing, grading or excavation activities.	Start of ground disturbance	1/14/02	8/31/01	10/18/01 Complete for project site
SOIL & WATER-3	Final erosion control and revegetation plan that addresses all project elements.	Approval of the final plan by the CPM must be received prior to the initiation of any clearing, grading or excavation activities.	Start of ground disturbance	12/15/01	8/31/01	10/18/01 Complete for project site
SOIL & WATER-4	Obtain SCWID approval for all activities within floodways or upon or within the banks of watercourses.	Obtain SCWID approval.	30 days prior to ground disturbance	12/15/01	8/31/01	1/25/02 Complete (5 permits to date)
SOIL & WATER-5	Develop and Implement a Storm Water Pollution Prevention Plan (SWPPP) as required under the General Industrial Activity Storm Water Permit.	[Develop and Implement a Storm Water Pollution Prevention Plan (SWPPP), Submit a copy of the Storm Water Pollution Prevention Plan (SWPPP).]	60 days prior to commercial operation			
SOIL & WATER-5	Develop and Implement a Storm Water Pollution Prevention Plan (SWPPP) as required under the General Industrial Activity Storm Water Permit.	[Submit a copy of the Storm Water Pollution Prevention Plan (SWPPP).]	2 weeks prior to commercial operation			
SOIL & WATER-6	Industrial Discharge Permit from the City of San Jose Environmental Services Division.	Provide the CPM a copy of a valid Industrial Discharge Permit.	45 days prior to commercial operation			
SOIL & WATER-7	Obtain a Section 401 Certification from the San Francisco RWQCB.	Submit to the CEC CPM a copy of the Section 401 Certification.	30 days prior to the start of any streambed alteration activities	5/1/03	12/02/02 (outfall)	Complete for outfall
SOIL & WATER-8	Shall only use groundwater for MEC process and domestic requirements and for back-up cooling make up from either the two wells and pipelines.	Submit the following to the Energy Commission CPM: all construction specifications, a copy of the valid well permit(s) and registration numbers, any construction or operation conditions.	30 days prior to construction of wells			
SOIL & WATER-8	Shall only use groundwater for MEC process and domestic requirements and for back-up cooling make up from either the two wells and pipelines.	Notify the CPM that the wells have been installed and submit the results of the pump and aquifer tests conducted.	30 days after completion of wells			
SOIL & WATER-9	Design, construct, and fully fund the portion of the SBWR reclaimed water supply pipeline dedicated to, and essential for, the operation of MEC.	Submit evidence demonstrating that the project owner has negotiated or is negotiating one or more agreements to provide SBWR reclaimed water.	30 days prior to start of construction	8/2/02	8/24/01	10/10/01 Complete
GEO-1	Assign to the project an engineering geologist(s).	Submit to the CPM the name(s) and license numbers(s) of the certified engineering geologist(s).	30 days prior to start of construction	8/2/02	7/27/2001 1/28/02	N/A Complete
GEO-1	Assign to the project an engineering geologist(s).	Notify CPM of replacement of Engineering Geologist.	Replacement of Engineering Geologist	1/28/02	1/28/02	2/6/02 Complete
GEO-2	The assigned engineering geologist(s) shall carry out the duties required by the 1998 CBC.	Submit copies of the Grading Permit Application GEO-2.	Application for Grading Permit per	1/11/02	1/11/02	4/4/02 Complete
GEO-2	The assigned engineering geologist(s) shall carry out the duties required by the 1998 CBC.	Submit a signed statement to the CPM stating that the Engineering Geology Report has been submitted to the CBO.	1/26/02	1/14/02	1/24/02 Complete	
GEO-2	The assigned engineering geologist(s) shall carry out the duties required by the 1998 CBC.	Submit copies of the Final Engineering Geology Report to the CPM and the CBO.	150 days following completion of Final Grading			
PAL-1	Ensure that the designated paleontological resource specialist is available for field activities.	Submit the name and resume and the availability for its designated paleontological resource specialist.	90 days prior to start of construction	6/3/02	7/26/01	7/27/01 Complete

METCALF ENERGY CENTER - COMPLIANCE MATRIX						
Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM/CBO	Date approved by CPM/CBO
PAL-1	Ensure that the designated paleontological resource specialist is available for field activities.	Obtain CPM approval of the replacement specialist.	10 days prior to termination or release of PRS			
PAL-2	Prepare Paleontologic Resources Monitoring and Mitigation Plan.	[Provide the CPM with a copy of the Monitoring and Mitigation Plan.]	60 days prior to start of construction	6/1/201	6/1/201	7/27/01 Complete
PAL-3	WEAT for paleo resources.	Submit to the CPM for review, comment, and written approval, the WEAT.	30 days prior to start of construction	9/20/01	9/20/01	10/29/2001 Complete
PAL-4	The designated paleontological resource specialist shall be present at all times he or she deems appropriate to monitor.	Documentation for training of additional new employees.	Monthly Compliance Report			In progress
PAL-5	Ensure recovery, preparation for analysis, analysis, identification and inventory, the preparation for curation, and the delivery for curation of all significant paleontological resource materials.	Include a summary of paleontological activities.	Monthly Compliance Report			In progress
PAL-6	Ensure preparation of a Paleontological Resources Report by the designated paleontological resource specialist.	Maintain in compliance files copies of signed contracts or agreements with the designated paleontological resource specialist. Maintain these files for a period of three years after approval Paleontological Resources Report.	Periodic Audit by the CPM per PAL-5			
PAL-7	Include in the facility closure plan a description regarding facility closure activity's potential to impact paleontological resources.	Submit a copy of the Paleontological Resources Report to the CPM for review and approval.	Within 90 days following completion of the analysis			
GEN-1	Design, construct and inspect the project in accordance with the 1988 California Building Code (CBC) and all other applicable LORS in effect at the time initial design plans are submitted to the CBO for review and approval.	Include a description of closure activities in the Facility Closure Plan	Facility Closure Plan			
GEN-1	Design, construct and inspect the project in accordance with the 1988 California Building Code (CBC) and all other applicable LORS in effect at the time initial design plans are submitted to the CBO for review and approval.	Submit to the CPM a statement of verification attesting that all designs, construction, installation and inspection requirements of the applicable LORS and the Decision have been met.	Within 30 days after receipt of the Certificate of Occupancy.			
GEN-2	Submit to the CPM and CBO a schedule of facility design submittals, Master Drawing List, and a Master Specifications List.	Provide the CPM a copy of the Certificate of Occupancy.	Within 30 days after receipt of the Certificate of Occupancy.			
GEN-2	Submit to the CPM and CBO a schedule of facility design submittals, a Master Drawing List, and a Master Specifications List.	Submit the schedule, a Master Drawing List, and 30 days prior to start of rough grading	11/15/01	10/4/01	10/18/01	Complete
GEN-3	Make payments to the CBO for design review, plan check and construction inspection.	Provide schedule updates in Monthly Compliance Report	Monthly Compliance Report			
GEN-3	Make payments to the CBO for design review, plan check and construction inspection.	Make the required payments to the CBO at the time of submittal.	Submittal of plans to the CBO.			In progress
GEN-4	Assign a California registered architect, structural engineer or civil engineer, as a resident engineer (RE).	Send a copy of the CBO's receipt of payment to the CPM.	Monthly Compliance Report after Fees are Paid	11/15/01	12/14/01	N/A
GEN-4		Submit to the CBO for review and approval, the name, qualifications and registration number of the RE.	30 days prior to start of rough grading	12/15/01	8/1/01	Complete

METCALF ENERGY CENTER - COMPLIANCE MATRIX						
START OF MOBILIZATION/ROUGH GRADING		8/14/2002				
START OF CONSTRUCTION		8/1/2002				
Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM/CBO	Date approved by CPM/CBO
GEN-4	Assign a California registered architect, structural engineer or civil engineer, as a resident engineer (RE).	Notify the CPM of the CBO's approvals of the RE. Submit qualifications of replacement RE.	Within 5 days of CBO approval Within 5 days	8/12/01	9/19/01	N/A
GEN-4	Assign a California registered architect, structural engineer or civil engineer, as a resident engineer (RE).	Notify the CPM of the CBO's approval of the new engineer (RE).	Within 5 days of CBO approval	12/12/01	12/12/01	1/16/02
GEN-4	Assign a California registered architect, structural engineer or civil engineer, as a resident engineer (RE).	Submit qualifications of replacement RE.	Within 5 days	12/11/02	1/18/02	N/A
GEN-4	Assign a California registered architect, structural engineer or civil engineer, as a resident engineer (RE).	Notify the CPM of the CBO's approval of the new engineer (RE).	Within 5 days of CBO approval	11/14/02	11/14/02	1/18/02
GEN-4	Assign A) a civil engineer; B) a geotechnical engineer; C) a design engineer; D) a mechanical engineer; and E) an electrical engineer.	Submit to the CBO for review and approval, the names, qualifications, and registration numbers of all the responsible engineers.	30 days prior to start of rough grading	12/15/01	8/1/01	8/7/01
GEN-5	Assign A) a civil engineer; B) a geotechnical engineer; C) a design engineer; D) a mechanical engineer; and E) an electrical engineer.	The project owner shall notify the CPM of the CBO's approvals of the engineers within five days of the approval.	Within 5 days of CBO approval	8/12/01	8/18/01	N/A
GEN-5	Assign A) a civil engineer; B) a geotechnical engineer; C) a design engineer; D) a mechanical engineer; and E) an electrical engineer.	Submit qualifications of replacement engineer.	Within 5 days	12/17/01 11/26/01	1/16/02 1/18/01	Complete
GEN-5	Assign A) a civil engineer; B) a geotechnical engineer; C) a design engineer; D) a mechanical engineer; and E) an electrical engineer.	Notify the CPM of the CBO's approval of the new engineer.	Within 5 days of CBO approval	1/18/02 & 1/28/02	N/A	Complete
GEN-6	Assign qualified and certified special inspector(s).	Submit to the CBO for review and approval, with a copy to the CPM, the name(s) and qualifications.	15 days prior to any activity requiring Special Inspection	1/11/02	1/16/02	In progress
GEN-6	Assign qualified and certified special inspector(s).	Submit to the CPM a copy of the CBO's approval.	Monthly Compliance Report after Special Inspectors are approved	2/14/2002 10/22/02		In progress
GEN-6	Assign qualified and certified special inspector(s).	Replacement of special inspections	Replacement of Special Inspector			
GEN-6	Assign qualified and certified special inspector(s).	Notify the CPM of the CBO's approval of the newly assigned inspector.	Within 5 days of CBO approval			
GEN-7	Keep the CEO informed regarding the status of engineering and construction.	Submit monthly construction progress reports to the CBO and CPM.	Monthly Construction Progress Report			In progress
GEN-7	Keep the CEO informed regarding the status of engineering and construction.	Document the discrepancy and recommend the corrective action required.	Discrepancy in Design or Construction			
GEN-7	Keep the CEO informed regarding the status of engineering and construction.	Transmit a copy of the CBO's approval or disapproval of any corrective action taken to resolve a discrepancy to the CPM.	Within 15 days of CBO Approval or Disapproval of Discrepancy			
GEN-7	Keep the CEO informed regarding the status of engineering and construction.	If disapproved, advise the CPM the reason for disapproval, and the revised corrective action to obtain CBO's approval.	Within 5 days of CBO Approval or Disapproval of Discrepancy			

MEIGAFFE ENERGY CENTER: COMPLIANCE MATRIX						
Condition No	Requirements & Task Summary	Action required	Event	Required Date	Date submitted to CPM/CBO	Date approved by CPM/CBO
START OF MOBILIZATION/ROUGH GRADING	1/14/2002					
START OF CONSTRUCTION	5/1/2002					
GEN-3	Obtain the CBO's final approval of all completed work.	Submit to the CBO, with a copy to the CPM, a written notice that the completed work is ready for final inspection, and a signed statement that the work conforms to the final approved plans.	Within 15 days of the completion of any work			
CIVIL-1	Prior to the start of site grading, submit to the CBO for review and approval the following: 1. Design of the proposed drainage structures and the grading plan; 2. An erosion and sedimentation control plan; 3. Related calculations and specifications; 4. Soils report.	Submit the documents described above to the CBO for review and approval.	15 days prior to start of rough grading			
CIVIL-1	Prior to the start of site grading, submit to the CBO for review and approval the following: 1. Design of the proposed drainage structures and the grading plan; 2. An erosion and sedimentation control plan; 3. Related calculations and specifications; 4. Soils report.	Submit a written statement certifying that the documents have been approved by the CBO.	Monthly Compliance Report after CIVIL-1 Documents are Approved	12/30/01	8/27/01	4/2/02
CIVIL-2	The resident engineer shall, if appropriate, stop all earthwork and construction in the affected areas when the responsible geotechnical engineer identifies unforeseen adverse soil or geologic conditions.	Notify CPM within 5 days when work is stopped.	Within 5 days when work is stopped			
CIVIL-2	The resident engineer shall, if appropriate, stop all earthwork and construction in the affected areas when the responsible geotechnical engineer identifies unforeseen adverse soil or geologic conditions.	Submit modified plans, specifications and calculations to the CBO based on new conditions.	Work Stopped Due to Unforeseen or Adverse Soil Conditions			
CIVIL-2	The resident engineer shall, if appropriate, stop all earthwork and construction in the affected areas when the responsible geotechnical engineer identifies unforeseen adverse soil or geologic conditions.	Copy CPM within 5 days of CBO approval of Modified Plans.	5 days of CBO approval			
CIVIL-3	Perform inspections in accordance with the 1998 CBC, Chapter 1, Section 108, Inspections, Chapter 17, Section 1701.6, Continuous and Periodic Special Inspection and Appendix Chapter 33, Section 3317, Grading Inspection.	Perform Inspections in accordance with the 1998 CBC, Chapter 1, Section 108, Inspections, Chapter 17, Section 1701.6, Continuous and Periodic Special Inspection and Appendix Chapter 33, Section 3317, Grading Inspection.	Start of Rough Grading			
CIVIL-3	Perform inspections in accordance with the 1998 CBC, Chapter 1, Section 108, Inspections, Chapter 17, Section 1701.6, Continuous and Periodic Special Inspection and Appendix Chapter 33, Section 3317, Grading Inspection.	The resident engineer shall transmit to the CBO and the CPM a Non-Conformance Report and the proposed corrective action.	Within 5 days of discovery of discrepancy in grading			
CIVIL-3	Perform inspections in accordance with the 1998 CBC, Chapter 1, Section 108, Inspections, Chapter 17, Section 1701.6, Continuous and Periodic Special Inspection and Appendix Chapter 33, Section 3317, Grading Inspection.	Submit the details of the corrective action to the CBO and the CPM.	Within 5 days of resolution of grading NCR.			

METCALF ENERGY CENTER - COMPLIANCE MATRIX						
Condition No.	Requirements & Task Summary	Action Required	Event	Required Submittal Date	Date submitted to CPM/CBO	Date approved by CPM/CBO
START OF MOBILIZATION/ROUGH GRADING	1/14/2002					
START OF CONSTRUCTION	9/1/2002					
CIVIL-3	Perform inspections in accordance with the 1998 CBC, Chapter 1, Section 108, Inspections, Chapter 17, Section 1701.6, Continuous and Periodic Special Inspection and Appendix Chapter 33, Section 3317, Grading Inspection.	A list of NCR's, for the reporting month, shall also be included in the following Monthly Compliance Report.	Monthly Compliance Report after Resolution of Grading NCR.			
CIVIL-4	After completion of finished grading and erosion and sedimentation control and drainage facilities, the project owner shall obtain the CBO's approval of the final "as-graded" grading plans, and final "as-built" plans for the erosion and sedimentation control facilities.	Submit to the CBO the responsible Civil engineer's signed statement that the installation of the facilities and all erosion control measures were completed in accordance with the final approved combined grading plans.	30 days after completion of the Erosion and Sediment Control Mitigation and Drainage Facilities			Complete for phase 1 grading only.
CIVIL-4	After completion of finished grading and erosion and sedimentation control and drainage facilities, the project owner shall obtain the CBO's approval of the final "as-graded" grading plans, and final "as-built" plans for the erosion and sedimentation control facilities.	Submit a copy of this report to the CPM in the next Monthly Compliance Report.	Monthly Compliance Report Following Completion of the Erosion and Sediment Control Mitigation and Drainage Facilities	7/26/02	7/26/02	Complete for phase 1 grading only.
STRUCL-1	Submit to the CBO for review and approval the applicable designs, plans and drawings, and a list of those project structures, components and major equipment items that will undergo dynamic structural analysis.	Submit to the CBO with a copy to the CPM, the responsible design engineer's signed statement that the final design plans, specifications and calculations conform with all of the requirements.	30 days prior to any increment of STRUC-1 Construction	8/14/02	8/14/02	
STRUCL-1	Submit to the CBO for review and approval the applicable designs, plans and drawings, and a list of those project structures, components and major equipment items that will undergo dynamic structural analysis.	Obtain approval from the CBO of lateral force procedures proposed for project structures. Obtain approval from the CBO for the final design plans, specifications, calculations, soils reports, and applicable quality control procedures. Submit to the CBO the required number of copies of the structural plans, specifications, calculations. The final designs, plans, calculations and specifications shall be signed and stamped by the responsible design engineer.	90 days prior to the start of on-site fabrication and installation of each structure			In progress
STRUCL-1	Submit to the CBO for review and approval the applicable designs, plans and drawings, and a list of those project structures, components and major equipment items that will undergo dynamic structural analysis.	If the CBO discovers non-conformance with the stated requirements, resubmit the corrected plans to the CBO with a copy to the CPM.	Within 20 days of receipt of the nonconforming submittal			
STRUCL-1	Submit to the CBO for review and approval the applicable designs, plans and drawings, and a list of those project structures, components and major equipment items that will undergo dynamic structural analysis.	Submit to the CPM a copy of a statement from the CBO that the proposed structural plans, specifications, and calculations have been approved and are in conformance with the requirements.	Approval by the CBO or Resubmitted STRUC-1 Submittal			
STRUCL-2	The project owner shall submit to the CBO the required number of sets of the following: See STRUC-2.	Submit test reports and inspection reports to the CBO	Test Reports or Inspection Reports are Complete			

METCALF ENERGY CENTER - COMPLIANCE MATRIX						
Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM/CBO	Date approved by CPM/CBO
STRUC-2	The project owner shall submit to the CBO the required number of sets of the following: See STRUC-2.	If a discrepancy is discovered in any of the above data prepare and submit an NCR to the CBO, with a copy of the transmittal letter to the CPM.	Within 5 days of discovery of discrepancy			
STRUC-2	The project owner shall submit to the CBO the required number of sets of the following: See STRUC-2.	Submit a copy of the corrective action to the CBO and the CPM.	Within five days of resolution of the NCR			
STRUC-2	The project owner shall submit to the CBO the required number of sets of the following: See STRUC-2.	Transmit a copy of the CBO's approval or disapproval of the corrective action to the CPM.	Within 15 days of CBO approval			
STRUC-2	The project owner shall submit to the CBO the required number of sets of the following: See STRUC-2.	If disapproved, advise the CPM, the reason for disapproval, and the revised corrective action to obtain CBO's approval.	Within 5 days of CBO disapproval			
STRUC-3	Submit to the CBO design changes to the final plans required by the 1998 CBC, Chapter 1, Section 106.3.2, Submittal documents, and Section 106.3.2.1, Submittal documents, and Section 106.3.3.	Notify the CBO of the intended filing of design changes, and shall submit the required number of sets of revised drawings and the required number of copies with a copy of the transmittal letter to the CPM.	Design Changes to STRUC-1 Designs Previously Approved by the CBO			
STRUC-3	Submit to the CBO design changes to the final plans required by the 1998 CBC, Chapter 1, Section 106.3.2, Submittal documents, and Section 106.3.3.	Notify the CPM, via the Monthly Compliance Report, when the CBO has approved the revised plans.	Monthly Compliance Report			
STRUC-4	Tanks and vessels containing quantities of toxic or hazardous materials exceeding amounts must be designed to comply with Occupancy Category 2 of the 1998 CBC.	Submit to the CBO for review and approval, final design plans, specifications, and calculations, including a copy of the signed and stamped engineer's certification.	30 days prior to the start of installation of the tanks or vessels			
STRUC-4	Tanks and vessels containing quantities of toxic or hazardous materials exceeding amounts must be designed to comply with Occupancy Category 2 of the 1998 CBC.	Send copies of the CBO approvals of plan checks to the CPM in the following Monthly Compliance Report.	Monthly Compliance Report			
STRUC-4	Tanks and vessels containing quantities of toxic or hazardous materials exceeding amounts must be designed to comply with Occupancy Category 2 of the 1998 CBC.	Transmit a copy of the CBO's inspection approvals to the CPM.	Monthly Compliance Report			
MECH-1	Prior to the start of any increment of piping construction, submit, for CBO review and approval, the proposed final design drawings, specifications and calculations for each plant piping system.	Submit to the CBO for approval, with a copy to the CPM, the proposed final design plans, specifications, calculations, and quality control procedures for that increment of construction of piping systems.	30 days prior to the start of any increment of piping construction			
MECH-1	Prior to the start of any increment of piping construction, submit, for CBO review and approval, the proposed final design drawings, specifications and calculations for each plant piping system.	Transmit a copy of the CBO's inspection approvals to the CPM in the Monthly Compliance Report following completion of any inspection.	Monthly Compliance Report after CBO Inspection Approval of MECH-1 Piping Systems			

METGALF ENERGY CENTER * COMPLIANCE MATRIX						
Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM/CBO	Date approved by CPM/CBO
MECH-2	For all pressure vessels installed in the plant, submit to the CBO and Cal-OSHA, prior to operation, the code certification papers and other documents required by the applicable LORS.	Submit to the CBO for review and approval, final design plans, specifications, and calculations, including a copy of the signed and stamped engineer's certification, with a copy to the CPM.	30 days prior to the start of on-site fabrication or installation of any pressure vessel			
MECH-2	For all pressure vessels installed in the plant, submit to the CBO and Cal-OSHA, prior to operation, the code certification papers and other documents required by the applicable LORS.	The project owner shall send copies of the CBO plan check approvals to the CPM in the following Monthly Compliance Report.	Monthly Compliance Report after CBO Approval of Plan Checks for Pressure Vessels			
MECH-2	For all pressure vessels installed in the plant, submit to the CBO and Cal-OSHA, prior to operation, the code certification papers and other documents required by the applicable LORS.	Transmit a copy of the CBO's and/or Cal-OSHA Inspection approvals to the CPM in the Monthly Compliance Report following completion of any inspection.	Monthly Compliance Report after CBO Inspection Approval of Pressure Vessels Defined in MECH-2			
MECH-3	Prior to the start of construction of any heating, ventilating, air conditioning (HVAC) or refrigeration system, submit to the CBO for review and approval the design plans, specifications, calculations and quality control procedures for that system.	Submit to the CBO the required HVAC and refrigeration calculations, plans and specifications, including a copy of the signed and stamped statement from the responsible mechanical engineer, with a copy to the CPM.	30 days prior to the start of construction of any HVAC or refrigeration system			
MECH-3	Prior to the start of construction of any heating, ventilating, air conditioning (HVAC) or refrigeration system, submit to the CBO for review and approval the design plans, specifications, calculations and quality control procedures for that system.	Send copies of CBO comments and approvals to the CPM in the next Monthly Compliance Report.	Monthly Compliance Report after CBO Approval of Plan Checks for HVAC Systems			
MECH-3	Prior to the start of construction of any heating, ventilating, air conditioning (HVAC) or refrigeration system, submit to the CBO for review and approval the design plans, specifications, calculations and quality control procedures for that system.	Transmit a copy of the CBO's inspection approvals to the CPM in the Monthly Compliance Report following completion of any inspection.	Monthly Compliance Report after CBO Inspection Approval of HVAC Systems Defined in MECH-3			
MECH-4	Prior to the start of each increment of plumbing construction, submit for CBO's approval the final design plans, specifications, calculations, and QA/QC procedures for all plumbing systems, potable water systems, drainage systems, toilet rooms, building energy conservation systems, and temperature control and ventilation systems, including water and sewer connection permits issued by the local agency.	Submit to the CBO the final design plans, specifications and calculations, including a copy of the signed and stamped statement from the responsible mechanical engineer certifying compliance with the applicable edition of the CBC	30 days prior to the start of construction of any of the above systems			

IMMETCAL ENERGY CENTER: COMPLIANCE MATRIX						
Condition No.	Requirements & Task Summary	Action required	Event	Required Submit Date	Date submitted to CPM/CBO	Date approved by CPM/CBO
START OF MOBILIZATION/ROUGH GRADING	9/14/2002					
START OF CONSTRUCTION	9/11/2002					
MECH-4	Prior to the start of each increment of plumbing construction, submit for CBO's approval the final design plans, specifications, calculations, and QA/QC procedures for all plumbing systems, potable water systems, drainage systems, toilet rooms, building energy conservation systems, and temperature control and ventilation systems, including water and sewer connection permits issued by the local agency.	Send the CPM a copy of the transmittal letter with the signed and stamped statement from the responsible mechanical engineer certifying compliance with the applicable edition of the CBO in the next Monthly Compliance Report.	Monthly Compliance Report after CBO Inspection of HVAC System per MECH-4			
MECH-4	Prior to the start of each increment of plumbing construction, submit for CBO's approval the final design plans, specifications, calculations, and QA/QC procedures for all plumbing systems, potable water systems, drainage systems, toilet rooms, building energy conservation systems, and temperature control and ventilation systems, including water and sewer connection permits issued by the local agency.	Transmit a copy of the CBO's inspection approvals to the CPM in the next Monthly Compliance Report following completion of that increment of construction.	Monthly Compliance Report after CBO Inspection of HVAC System per MECH-4			
ELEC-1	For the 480V and higher systems, shall not begin any increment of electrical construction until plans for that increment have been approved by the CBO.	Submit to the CBO for review and approval the final design plans, specifications and calculations for electrical equipment, including a copy of the signed and stamped statement from the responsible electrical engineer.	30 days prior to the start of each increment of electrical construction			
ELEC-1	For the 480V and higher systems, shall not begin any increment of electrical construction until plans for that increment have been approved by the CBO.	Send a copy of the transmittal letter of the signed and stamped statement from the electrical engineer attesting compliance with the applicable LORS to the CPM.	Monthly Compliance Report after submitting Electrical Documents for CBO Approval per ELEC-1			
ELEC-1	For the 480V and higher systems, shall not begin any increment of electrical construction until plans for that increment have been approved by the CBO.	The following activities shall be reported in the Monthly Compliance Report: 1. Receipt or delay of major electrical equipment, 2. Testing or energization of major electrical equipment.	Monthly Compliance Report after Receipt or Testing of Equipment or CBO Approval of Electrical Drawings per ELEC-1			
ELEC-2	The project owner shall submit to the CBO the required number of copies of items A and B for review and approval and one copy of item C [CBC 1998, Section 106.3.2, Submittal documents.]	Submit to the CBO for review and approval the final design plans, specifications and calculations, for electrical equipment, including a copy of the signed and stamped statement from the responsible electrical engineer certifying compliance with the applicable LORS.	30 days prior to the start of each increment of electrical equipment installation			
ELEC-2	The project owner shall submit to the CBO the required number of copies of items A and B for review and approval and one copy of item C [CBC 1998, Section 106.3.2, Submittal documents.]	Send a copy of the transmittal letter of the signed and stamped statement from the responsible electrical engineer attesting compliance with the applicable LORS to the CPM in the next Monthly Compliance Report.	Monthly Compliance Report after submitting Electrical Documents for CBO Approval per ELEC-2			

METCALF ENERGY CENTER COMPLIANCE MATRIX					
Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CP/MCBO
START OF MOBILIZATION/ROUGH GRADING	9/1/2002	Submit for approval to the CPM Design drawings, specifications and calculations for the poles/towers, foundations, anchor bolts, conductors, grounding systems and major switchyard equipment.	60 days prior to construction of transmission facilities		
START OF CONSTRUCTION	9/1/2002	Submit for approval to the CPM; b) For each element of the transmission facilities as identified above, the submittal package to the CPM shall contain the design criteria, etc.	60 days prior to construction of transmission facilities		
TSE-1	Ensure the design, construction and operation of transmission facilities conform to requirements TSE1-a - h listed in Conditions of Certification.	Submit for approval to the CPM; c) Electrical one-line diagrams signed and sealed by the registered professional electrical engineer in responsible charge, a route map, and an engineering description of equipment.	60 days prior to construction of transmission facilities		
TSE-1	Ensure the design, construction and operation of transmission facilities conform to requirements TSE1-a - h listed in Conditions of Certification.	Inform the CPM of any impending changes which may not conform to the requirements of 1a - h listed in TSE-1 and request CPM approval to implement changes.	60 days prior to construction of transmission facilities		
TSE-1	Be responsible for the inspection of the transmission facilities during and after project construction and any subsequent CPM approved changes.	Transmit to the CPM "as built" engineering description(s) and one-line drawings of the as-built facilities signed and sealed by a registered electrical engineer in responsible charge.	Within 60 days after synchronization of the project		
TSE-2	Be responsible for the inspection of the transmission facilities during and after project construction and any subsequent CPM approved changes.	Transmit to the CPM an "as built" engineering description of the mechanical, structural, and civil portion of the transmission facilities signed and sealed by the registered engineer.	Within 60 days after synchronization of the project		
TSE-3	Be responsible for the inspection of the transmission facilities during and after project construction and any subsequent CPM approved changes.	Transmit to the CPM a summary of inspections of the completed transmission facilities, and identification of any nonconforming work and corrective actions taken, signed and sealed by the registered engineer.	Within 60 days after synchronization of the project		
TSE-3	Milestones, and method of verification must be established and agreed upon by the project owner and the CPM no later than 30 days after project approval, the date of docketing. If this deadline is not met, the CPM will establish the milestones.	ESTABLISH PRE-CONSTRUCTION MILESTONES TO ENABLE START OF CONSTRUCTION WITHIN ONE YEAR OF CERTIFICATION	Project Certification	10/24/01	10/24/01
Governor's Executive Order No. D-25-01	Milestones, and method of verification must be established and agreed upon by the project owner and the CPM no later than 30 days after project approval, the date of docketing. If this deadline is not met, the CPM will establish the milestones.	ESTABLISH CONSTRUCTION MILESTONES FROM DATE OF START OF CONSTRUCTION	Project Certification	10/24/01 9/10/02	11/19/01 10/25/02
Governor's Executive Order No. D-25-01					Complete

METCALF ENERGY CENTER COMPLIANCE MATRIX						
Condition No.	Requirements & Task Summary	Action required	Event	Required Submission Date	Date submitted to CPM/CBO	Date approved by CPM/CBO
START OF MOBILIZATION/ROUGH GRADING	1/14/2002					
START OF CONSTRUCTION	9/1/2002					
US Dep Commerce	The project applicant shall notify the NMFS Santa Rosa office when project construction begins and ends (horizontal drilling).  Prior to commencing construction a compliance matrix addressing only those conditions that must be fulfilled before the start of construction shall be submitted to the CPM.	Notify NMFS  Construction shall not commence until the pre-construction conditions have been compiled with, and the CPM has issued a letter to the project owner authorizing construction.	Start of streamlined alteration activities  Start of Construction	9/1/02  9/7/02	8/30/02  8/7/02	Complete  Complete
Pre-constr matrix	A compliance matrix shall be submitted by along with monthly and annual compliance report.	Submit monthly and annual compliance report.	Monthly Compliance Report	11/15/01	11/15/01	In progress
Compliance matrix						

## **CBO SUBMITTALS, COMMENTS AND APPROVALS**

METCALF ENERGY CENTER  
MONTHLY COMPLIANCE REPORT #14

METCALF DOCUMENT SUBMITTAL RECORD  
CALPINE/B&R AND CBO

WILL DAN CBO PROJECT NO. 13254

Cond.	Pack. No.	CBO No.	Plan Checker	Package Title	Review / Approval Dates				Comments
					Issued	Response Due	Response Forecast	Response Received	
Never Assigned	Never Assigned	00001		Never Assigned	Never Assigned	Never Assigned	Never Assigned	Never Assigned	
Never Assigned	Never Assigned	00002		Never Assigned	Never Assigned	Never Assigned	Never Assigned	Never Assigned	
Never Assigned	Assigned	00009		Construction Facilities Drawing	2/21/2002	3/21/2002	3/21/2002	3/29/2002	See 00055
GEN-2	00010			General Conditions of Construction	3/21/2002	3/21/2002	3/21/2002	3/29/2002	A-3/29/2002
GEN-2	00021			Condition of Construction - Gas Turbine Diesel	4/22/2002	NA	NA	NA	A-4/24/02
GEN-6	1008			Field Engineers and Special Inspectors John Edwin Nelson and Roman M. Reyes	4/9/2002	NA	NA	NA	A-9/28/02
GEN-5	1009			Benefit Protection CBO Submittal # 132493-1000-010-0001-0001	5/1/2002	5/1/2002	5/1/2002	5/1/2002	C-1/16/02
GEN-5	1011			Qualifications Statement Ballod (Civil), Masi (Mech) & Rubin (Elect)	5/1/2002	5/1/2002	5/1/2002	5/1/2002	A-1/18/02
GEN-4	1012			Statement of Qualifications, Shute Mao, (Resident Engineer [CIVIL])	5/1/2002	5/1/2002	5/1/2002	5/1/2002	A-1/17/02
GEN-5	1013			Statements of Qualifications C. Barry Butler and Richard G. Woodward (Geotech)	5/1/2002	5/1/2002	5/1/2002	5/1/2002	A-1/16/02
GEN-5	1014			Statement of Qualifications Bill Temski	5/1/2002	5/1/2002	5/1/2002	5/1/2002	C-1/18/02
GEN-5	1015			Specialty Inspectors Sam and Bobbi (f/f) CBO/AC	5/1/2002	5/1/2002	5/1/2002	5/1/2002	A-1/16/02
GEN-5	1015			Special Inspector Kevin Brown (f/f) CBO/AC	5/1/2002	5/1/2002	5/1/2002	5/1/2002	A-1/16/02
GEN-5	1015			Special Inspector Leah Wellier (3/06) CBO/AC	5/1/2002	5/1/2002	5/1/2002	5/1/2002	A-1/16/02
GEN-5	1015			Special Inspector Steven Harvey (4/06) CBO/AC	5/1/2002	5/1/2002	5/1/2002	5/1/2002	A-1/16/02
GEN-5	1015			Special Inspectors Bunti, Charlene, Iain J. J. (f/f)	5/1/2002	5/1/2002	5/1/2002	5/1/2002	C-1/16/02
GEN-6	1015			Special Inspector Daniel Camacho (6/06)	5/1/2002	5/1/2002	5/1/2002	5/1/2002	C-1/16/02
GEN-5	1016			Statement of Qualification - Special Inspector	5/1/2002	5/1/2002	5/1/2002	5/1/2002	C-1/17/02
GEN-1	1017			Statement of Qualifications, Emma, Chairess	5/1/2002	NA	NA	NA	A-9/20/02
GEN-1	1017			CBO Submittal #	5/1/2002	NA	NA	NA	
GEN-5	1017			Statement of Qualifications, Laini	5/1/2002	NA	NA	NA	A-9/20/02

Status Code

Approved

Accepted as for Information only  
Not approved, returned with comments

Approval Conditioned upon submittal of add'l. Info or replacement

R Reversal of approval pending resolutions from outside agency

P Approved upon sign-off by Engineer, Inspector or Geotech, or other Third Party indicated by CB#

D Discussion pending between CBO, Engineer, Geotech, Inspector or other par

H On hold by Mortenson/Calgene

Packet to be re-submitted

Please Note that this package contains one or more attachments.

Conditioned upon submittal of add'l. Info or replacement

METCALF DOCUMENT SUBMITTAL RECORD  
CALPINE/B&R AND CBO

WILLDAN CBO PROJECT NO. 13254

Cont.	Pack. No.	CBO No.	Plan Checker	Package Title	Review /Approval Dates					Comments	
					Issued	Response Due	Response Forecast	Response Received	Resultant		
CIVL-1				Storm Drain System Design							
CIVL-1	2001			Rough Grade Plan Check	8/29/2001					C-9/18/01	
CIVL-1	2001			Grading Retaining Wall-Geotech Review	9/18/2001					C-10/19/01	
CIVL-1	2001			Geotechnical Report (by Arroyo)	1/1/2002					6/12/2002	
CIVL-1	2002			Plot Plan - Beachtel C2-0000-00000:	10/26/2002					C-10/26/02	
CIVL-1	2003			Engineering Geology Report	10/26/2002					See 2008	
CIVL-1	2004			Engineering Geology Report	10/26/2002					See 2008	
CIVL-1	2005			Technical Specification for Earthwork						C-11/15/02	
CIVL-1		00020		Subsurface Investigation & Geology Report (BECTEL's) CY-0000-001 Rev H - D-CG-0101-00002 Rev 1, 0-CG-0080-00006 Rev. 0, 0-C2-0000-00001 Rev. 1	4/2/2002	NA					A-4/4/02
GEO-2	2008			Engineering Geology Report- Application for Grading Permit						C-1/17/02	
GEO-2	2008	00007		Subsurface Investigation & Foundation Report-Responses to Arroyo: comments	2/15/2002	3/8/2002					
GEO-2	2008	00012		Subsurface Investigation and Foundation Report-Revision	3/6/2002	3/22/2002				A-3/29/02	
CIVL-1	2009	00028		Sediment & Erosion Control- C050 South laydown yard Sediment & Erosion Control Plan Rev 0	4/30/2002	5/21/2002	CEC			A-9/26/02 Verba HK	
CIVL-1	2009	00048		C050 Sedimentation & Erosion Notes & Details Rev 0							
CIVL-1	2010	00029		C061 Sedimentation&Erosion Details Rev 0							
CIVL-1	2010	00048		Sediment & Erosion Control Burns & Roe response to comments	7/31/2002	7/24/2002				A-9/26/02 Disposition dated 10/14/02	
CIVL-1	2011	00054		Burns & Roe Response to comments on Design of Concrete Filled Pipe Piles	5/6/2002	5/28/2002				A-5/8/02 Approved with 3014	
CIVL-1	2011	00004		Site Observation Report Dated 7/25/02	7/29/2002	9/30/2002					
CIVL-1	2012	00069		Retaining Wall Design (Superseded by Keystone Blocks)	2/6/2002						
CIVL-1				Retaining Wall as built drawings	9/13/2002	10/7/2002				Replaces FCR 0002	
				0-CG-0090-0006 Rev 2 and 2484-C030 Rev. 1						Low Priority per JF on 10/9/02	

Status Code

\ Approved  
Accepted as for information only

\ Not approved, returned with comments

\ Approval Conditioned upon submittal of addt. info.or replacement

P Approved upon sign-off by Engineer, Inspector or Geotech, or other Third Party indicated by CB:

D Discussion pending between CBO, Engineer, Geotech, Inspector or other par

H On hold by Mortenson/Calpine

R Reversal of approval pending resolutions from outside agency



METCALF DOCUMENT SUBMITTAL RECORD  
CALPINE BAR AND CBO

WILL DAN CBO PROJECT NO. 13254

Cond.	Pack. No.	CBO No.	Plan Checker	Package Title	Review/Approval Dates					Comments
					Issued	Response Due	Response Forecast	Response Received	Resubmit	
STRU C-1	3006	00017		Spec's for concrete curing, forming & Grout 03100, 03390 & 03600 Rev.A	3/20/2002	4/10/2002				A-3/26/02
STRU C-1	3007			Design Report for W501F Exhaust System Diffuser						A-4/24/02
STRU C-1	3009	00008		HRSIG Piles- Pile Location Plan S30C Gas Turbine documentation SMWPC-CM-008 Enclosure B- Side Platform Analysis SMWPC-CM-009 Generator End Exterior Platform and Stair SMWPC-CM-010 Exhaust End Exterior Platform and Stair SMWPC-CM-011 Exhaust End Interior Platform and Stair 17-001-HR Sheets 1-7 Rev 1 General Arrangement 501FD Inlet Silencer System/CBO/calc's 01368-00 Inlet Silencer 1S10420 Sheets 1-20 Foundation Loads and Anchor 94P0260 Sheets 1-20 Foundation Loads and Anchor Z101-72 Excitation System for STG Z101-73 Excitation System for CTC	2/20/2002	3/13/2003	3/21/2002	3/29/2002		A-5/15/02
STRU C-1	3010	00014		Gas Turbine Document - Calculations, other documentation and Siemens Westinghouse response to Willian's 4/3 Comments Dwg 17-001-HR.R1	3/13/2002	4/3/2002	4/3/2002	4/4/2002	See 00031	C-4/3/02
STRU C-1	3010	00031		Siemens Westinghouse Dwg 77-001-HR.R2 General Arrangement 501F Inlet Silencer System Specs 01410 Rev. B- Testing Laboratory Services	5/17/2002	NA				A-5/31/02
STRU C-1	3011	00071		Civil Structural Design Criteria Civil/Structural Design Criteria - fixed head moment values for each pile.	9/18/2002	10/10/2002				
STRU C-1	3011	00016			3/11/2002	4/6/2002				A-4/8/02
STRU C-1	3012	00018			3/20/2002	4/10/2002				N-4/15/02
STRU C-1	3012	00026		Civil/Structural Design Criteria	4/26/2002	5/11/2002				C-5/15/02
STRU C-1	3012	00018							See 00018 & 00026	A-5/15/02
STRU C-1	3013	00019		Gen. Notes & Typical Detail Drawings S901, S680, S685, S690, S980, S981, S984, S985, S988, S989, S991 S993 & S997 Rev.F	4/29/2002	4/23/2002				A-4/30/02
STRU C-1	3013	00027		Gen. Notes & Typical Detail Drawings S901, S680, S685, S690, S980, S981, S984, S985, S988, S989, S991 S993 & S997 Rev.A	4/29/2002	5/20/2002				A-4/30/02

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  - D Discussion pending between CBO, Engineer, Geotech, Inspector or other par
  - H On hold by MortensonCalpine
  - R Reversal of approval pending resolution from outside agency
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METCALF DOCUMENT SUBMITTAL RECORD  
CALPINE/B&R AND CBO

WILLDAN CBO PROJECT NO. 13254

Contd.	Pack. No.	CBO No.	Plan Checker	Package Title	Review / Approval Dates					Comments
					Issued	Response Due	Response Forecast	Response Received	Submit	
STRUC-1	3014	0002		Calpine CBO Project No. 13254 - Construction Submittal #1 Rev 0	4/12/2002					See 000202 A-5/17/02 Approved Disposition dated 3/10/02
STRUC-1	3014	0002		Construction Submittal #2 Rev 0	4/12/2002					See 000202 A-5/17/02 Approved Disposition dated 3/10/02
STRUC-1	3014	0002		HRSG Field Locations 2008 Rev 0	4/27/2002					See 000202 A-5/17/02 Approved Disposition dated 3/10/02
STRUC-1	3014	0002		Specialized Storage HRSG Relocation Plan Rev 0	4/26/2002					See 000202 A-5/17/02 Approved Disposition dated 3/10/02
STRUC-1	3015	00023		HRSG & Stack foundation Mat Calc 02484-001-06-007 - Unit 2 Foundation Drawings:						
STRUC-1	3015	00023		S305 HRSG Plan Unit #1 Rev 0						
STRUC-1	3015	00023		S306 HRSG Reinforcing Plan Unit #1 Rev 0						
STRUC-1	3015	00023		S307 HRSG Reinforcing Plan Unit #2 Rev 0						
STRUC-1	3015	00023		S308 HRSG Section & Details Unit #1 Rev 0						
STRUC-1	3015	00023		S310 HRSG Section & Details Unit #1 Rev 0						
STRUC-1	3015	00023		S311 HRSG Section & Details Unit #2 Rev 0						
STRUC-1	3015	00023		S312 HRSG Sole Plate Details Unit #1 Rev 0						
STRUC-1	3015	00023		S313 HRSG Sole Plate Details Unit #2 Rev 0						
STRUC-1	3016	00021		S314 HRSG Shear Key Pocket Details Units #1&2 Rev 1						
STRUC-1	3016	00021		200 Gal. Reservoir Hydraulic Power Unit Seismic Calc	4/21/2002	4/23/2002				A-5/10/02
STRUC-1	3017	00024		Drawings & Calcs. - CTG Foundations						
STRUC-1	3017	00024		Calc 02484-001-06-004 CTG Units 1&2 Found. Rev.0						
STRUC-1	3017	00024		S205 CTG Units 1&2 Rev 0						
STRUC-1	3017	00024		S206 CTG Units 1&2 Rev 0						
STRUC-1	3017	00024		S208 CTG Units 1&2 Rev 0						
STRUC-1	3017	00024		S210 CTG Units 1&2 Rev 0						
STRUC-1	3017	00024		Revisions and Resubmittal with the new Pile capacities Calculations for CTG Foundations Calculation 02484-001-06-004 Rev 1 Dated 9/1						
STRUC-1	3018	00030		Revised doc. for Pile Testing - ECN 001	9/19/2002	10/3/2002				See 00072 A-10/22/02
STRUC-1	3018	00030		Revisions for Specs 02473_Drgs \$108, \$109.	5/7/2002	NA				See 3037 A-5/15/02 Superseded by 3037
STRUC-1	3018	00032		Doc. Review by Lowney Associate - ECN 001	5/20/2002	NA				See 3037 NA Superseded by 3037

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METCALF DOCUMENT SUBMITTAL RECORD  
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WILLDAN CBO PROJECT NO. 13254

Cond.	Pack. No.	CBO No.	Plan Checker	Package Title	Review / Approval Dates					Comments
					Issued	Response Due	Response Forecast	Response Received	Rebuttal	
STRUC-1	3021	00049	H. Kosten	Siemens Westinghouse Documents 000-000-125-742 Cables and Fogger Skid Anchorage 000-000-125-740 Found. Loads and Anchoring/Steam Turbine Seismic Loads 000-000-125-714 Struc Calcs & Dvns:	7/9/2002					Sent to JL (Industry 10/4)
STRUC-1	3022	00037		DRAWINGS FOR ROADWAYS C040 Road Geometry Plan Rev. 0 C043 Typical Road Cross Section Rev. 0 C045 PG&E All-Terrain Vehicle Access Partial Plan Rev. 1	6/13/2002	6/27/2002		7/1/2002		N-7/1/02
STRUC-1	3022	00038	GJ	DRAWINGS FOR ROADWAYS C040 Road Geometry Plan Rev. 0 C043 Typical Road Cross Section Rev. 0 C045 PG&E All-Terrain Vehicle Access Partial Plan Rev. 1	6/13/2002	6/27/2002		7/1/2002		C-10/6/02 TECHNICAL COMMENTS SHOULD NOT REFL PHOTO COMPARISON REQUIREMENT
STRUC-1	3022	00039	GJ	DRAWINGS FOR ROADWAYS C040 Road Geometry Plan Rev. 0 C043 Typical Road Cross Section Rev. 0 C045 PG&E All-Terrain Vehicle Access Partial Plan Rev. 1	6/13/2002	6/27/2002		7/1/2002		A-10/6/02
STRUC-1	3023	00038	GJ	DRAWINGS & CALCULATIONS FOR STG PLATFORM FOUNDATION S120 Steam Turbine Platform found S125 Steam Turbine Foundation Plan Rev. 1 S135 Steam Turbine Cap Details Rev. 0 S190 Steam Turbine Section & Details Rev. 0 S191 Steam Turbine Section & Details Rev. 0 S192 Steam Turbine Anchor Bolt Schedule Rev. 0 S193 Steam Turbine Enlarged Found. Plan Rev. 0	6/19/2002	7/11/2002				
STRUC-1	3023	00061	GJ	Burns & Roe Response to comments from Willdan on Platform Foundation Design and Cals 02484.001-06-028 Rev 2, S125 and S190 Rev. 1	6/19/2002	7/11/2002				see 00061 7/23/2002
STRUC-1	3023	00065	GJ	Dwg S720 Exciter Access Platforms Plan Section & Details Rev. 0 Cals 024-001-06-030 Rev 0 Excitation Housing Access Stairs & Platform Rev. 1	8/15/2002	9/15/2002				
STRUC-1	3023	00066	EWG	DRAWINGS & CALCULATIONS FOR STG PLATFORM FOUNDATION S120 Steam Turbine Platform found S125 Steam Turbine Foundation Plan Rev. 1 S190 Steam Turbine Section & Details Rev. 0 S191 Steam Turbine Section & Details Rev. 0 S192 Steam Turbine Anchor Bolt Schedule Rev. 0 S193 Steam Turbine Enlarged Found. Plan Rev. 0	8/29/2002	9/20/2002				See 00038
STRUC-1	3023	00069	EWG	STRUCTURAL COMMENTS ON LUDERSON PLATEAU S120 Steam Turbine Platform found S125 Steam Turbine Foundation Plan Rev. 1 S190 Steam Turbine Section & Details Rev. 0 S191 Steam Turbine Section & Details Rev. 0 S192 Steam Turbine Anchor Bolt Schedule Rev. 0 S193 Steam Turbine Enlarged Found. Plan Rev. 0	9/5/2002	10/2/2002				see 00061 10/5/02
Status Code										
A Approved Accepted as for information only					P	Approved upon sign-off by Engineer, Inspector or Geotech, or other Third Party indicated by CB				
D Discussion pending between CBO, Engineer, Geotech, Inspector or other par					D	Discussion pending between CBO, Engineer, Geotech, Inspector or other par				
H On hold by Mortenson/Calpine					H	On hold by Mortenson/Calpine				
R Reversal of approval pending resolutions from outside agencies.					R	Reversal of approval pending resolutions from outside agencies.				
I Not approved, returned with comments.					I	Not approved, returned with comments.				
C Approval Conditioned upon submittal of addl. info. or replacement					C	Approval Conditioned upon submittal of addl. info. or replacement				

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WILLDAN CBO PROJECT NO. 13254

Annuated and annotated versions of the same document

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CALPINE B&R AND CBO**

WILLDAN CBO PROJECT NO. 13254

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**CALPINE/B&R AND CBO**

WILLDAN CBO PROJECT NO. 13254

Cond.	Pack. No.	CBO No.	Plan Checker	Package Title	Review /Approval Dates				Comments
					Issued	Response Due	Response Forecast	Response Received	
ELEC-1	5001	000050	E. Segura	Electrical Grounding Drawings & Calculations E01, E203, E205, E207, E209, E210, E212, E213, E215, E216, 24.84-01-07-006 Rev. 1	7/18/2002	8/8/2002			A-10/22/02
ELEC-1	5001	000057	E. Segura	Underground Ground Cable Sizing Calc 02484-01-07-011 Rev 0 Above Ground Cable Sizing Calc 02484-01-07-012 Rev 0	8/30/2002	9/23/2002			
ELEC-1	5002	000057	E. Segura	Electrical One-Line Drawings E101, E102, E103, E104, E105, E106, E107, E108, E109, E110, E111, E113, E114, E120, E121, E122, E123, E124, E125, REV 0	8/22/2002	8/23/2002			C-10/17/02
ELEC-1	5003	000074	E. Segura	Conditions of Certifications - Electrical Drawing -Underground conduits E354, Rev 0 dated 5/31 E300, E316, E319, E322, E323, E324, E326, Rev 1 6/28 E371, E376, E377, E378, E379, E381, E382, E383, E384, E385, E386 Rev 0 dated 7/17 E301, E302, E303, E304, E305, E306, E307, E308, E310, E311, E312, E313, E315, E317, E329, E330, E331, E332, E333, E335, E337, E341, E342, E343, Rev. 0 dated 8/23 E350, E351, E352, E353, E360, E362, E363, E364, E370, E374, E375 Rev. 1 dated 8/23 E314, E320, E322, E328, E370, Rev 2 dated 8/22 Calcs 02484-001-07-002 Load Flow and Voltage Drop, Rev. 0 dated 10/13/02 Calcs 02484-001-07-003 short Circuit, Rev. 0 dated 10/29/02	9/20/2002	NA			
ELEC-1	5004	000099			11/6/2002	11/29/2002			

88-1

Status Change

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N Not approved, returned with comments

C Approval Conditioned upon submittal of add'l info.or replacement

P Approved upon sign-off by Engineer, Inspector or Geotech, or other Third Party indicated by CB.

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**R** Reversal of approval pending resolutions from outside agencies.



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## COMMENTS

**Date:** November 11, 2002

**TO:** Kevin Deters - Mortenson  
Jim Ferrara - Burns & Roe  
Kristen Sipes - Calpine

**CEC Docket No.:** (99-AFC-3C)  
**CBO Project No.:** MEC 13254  
**CBO Condition:** STRUCT-1: 3023 CBO # 00088

**Subject:** Drawings & Calculations for STG Platform Foundation.

The following are our plan review comments for the subject project.

### PART 1 – STRUCTURAL CALCULATIONS

1. On page D-127 of Appendix D, the designer used a shear load of 41.659 kips. According to the load summary table on page D-2, the maximum shear force for this node, Node 63, should be 74.251 kips. With this load, the required tension per bolt will exceed the allowable value. Please verify.
2. On page D-166 of Appendix D, the designer concluded that 1-inch diameter anchor bolts could be used for Column F-2 without checking uplift/shear load combination. According to the load summary table on page D-2, in the worst scenario, the column base will see a net compression of 4.921 kips and a shear force of 58.905 kips, the will require a tension force of 26.01 kips per bolt, which exceeds the allowable value. Please verify.

### PART 2 – STRUCTURAL PLANS

1. On sheet S120 (rev.2), it shows there are six piles for the combined foundation of Columns C-5 and C.4-5. However, according to the revised calculations on pages E-4 and E-6, Column C-5 requires 2.4 piles and C.4-5 requires 3.7 piles, so the combined foundation should have at least 7 piles. Please verify.
2. On sheet S192 (rev.1), both pile cap details show the bottom of grade beams or tie beams are flush with the bottom of pile caps, thus, additional bars are required to splice with beam bottom rebar. Actually, the bottom of grade beams or tie beams are at least 18-inch higher than the bottom of pile caps. Therefore, the beam bottom rebar can run through pile cap without using additional bars for splice. Please revise.
3. On sheet S192 (rev.1), there is a typo in Anchor Bolt Schedule: STB should be STP as called out in the plans. Please revise.
4. Please note in this set of plans, sheets S120, 125, 135, 190 thru 193, no base plate thickness callouts were found. Therefore, they were not checked against the design calculations.

The end.



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## Disposition

**Date:** November 11, 2002  
**TO:** Kevin Deters -Mortenson  
Jim Ferrara - Burns & Roe  
Kristen Sipes - Calpine  
**CEC Docket No.:** (99-AFC-3C)  
**CBO Project No.:** MEC 13254  
**CBO Condition:** STRUCT-1/3023 CBO # 00088  
**Subject:** Drawings & Calculations for STG Platform Foundation and Piles.

In accordance with the above referenced CEC docket No. (99-AFC-3C) the CBO has reviewed the documentation provided. This letter serves as the disposition by the CBO.

***NOT APPROVED (See attached comments.)***

Revisions and/or replacement sheets for this package shall be submitted in 4 fold to CBO. Upon approval of the package, or revisions CBO shall return one (1) updated package/set, **Stamped Approved**, including a new disposition.

Should you have any questions please do not hesitate to contact Bart Brierty or myself at (408) 392-9213.

Regards,

Hans Kosten  
Deputy CBO

cc: D. Wimberly, R. Sellers, E. Segura, Willdan/AIMS

Date: April 1, 2002  
Subject: University Marelich Mechanical (UMM)  
Welding Procedure Specifications  
**Date Issued March 4, 2002**

Page 2 of 2

E. Moran, Willdan  
File



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**Date:** November 18, 2002  
**To:** Kristen O'Kane, Compliance Manager  
**CEC Docket:** 99-AFC-3C  
**CBO Project:** MEC 13254  
**CEC Condition:** GEN-4  
**Subject:** Replacement of Resident Engineer; Metcalf Energy Center

**Reference:** Condition of Certification GEN-4 requires the project owner assign a California registered architect, structural engineer, or civil engineer to be the Resident Engineer (RE), to be in general responsible charge of the project. GEN-4, et sec, elaborates the duties of the RE, and the relationship of the RE to the Responsible Design Engineers (RDE) called for by GEN-5. GEN-4 further provides that the name, qualifications, and registration number of the RE shall be submitted to the CBO for review and approval.

California Building Code, Section 106.3.4, applicable to this project, also provides for the designation of an engineer of record.

**Request:** On November 14, 2002, Calpine/Metcalf Energy Center requested CBO approval of the replacement of the current RE, Mr. Shuke Miao, P.E., with Mr. Sam Grossman, P.E.

**CBO Action:** Mr. Grossman is qualified and hereby approved subject to the following procedural requirement for transfer of RE responsibilities from Mr. Miao to Mr. Grossman:

1. Mr. Miao is to attest in writing that the project design documents prepared and submitted to the CBO to date have been prepared in accordance with applicable CEC Conditions of Certification in the area of facility design, laws, ordinances, regulations and standards. Attached to and referenced in this letter is to be a list of all engineering design submittals prepared and submitted to date.
2. Mr. Miao is to also attest in writing that the project improvements constructed to date have been constructed accordance with applicable CEC Conditions of Certification in the area of facility design, laws, ordinances, regulations and standards, and that, in accordance with GEN-6, special inspection reports have been reviewed and all discrepancies to date identified. A list of all improvements constructed to date and any discrepancies therewith is to be attached to this certification by Mr. Miao.

Page 2; Memorandum to Calpine RE Replacement of Resident Engineer; 11/18/02

3. Mr. Miao is to confirm whether he has delegated any RE responsibilities as provided in GEN-4. If such delegations have taken place, the names and scope of delegation are to be clearly documented for this transfer.
4. Mr. Grossman is to acknowledge in writing the design and construction work accomplished to date, making reference to the lists referred to above in 1. through 3., and state that he has familiarized himself with this work and will be able to accomplish the post-construction compliance verification required by GEN-1.
5. Mr. Grossman is to provide to the CBO a matrix listing all assigned and approved RDE's for the project indicating the segments of the project for which each is responsible per GEN-5. If any delegations of RE responsibility have taken place ((Number 3 above), Mr. Grossman is to confirm or modify those delegations as he determines necessary.

When the above materials have been received by this office, and approved, a written approval of Mr. Grossman's assignment as RE for MEC will be provided to Calpine.

Sincerely,

Donald C. Wimberly, P.E.  
Delegate Chief Building Official

C: Sam Grossman, P.E., Resident Engineer  
Nick LaPorte, Senior Project Manager  
Jim Kimura, Calpine